

Prepared in cooperation with the
Georgia Department of Natural Resources, Environmental Protection Division

Water Use in Georgia by County for 2005; and Water-Use Trends, 1980–2005

Scientific Investigations Report 2009–5002

Cover:

The city of Albany has a very complete system of water-works which cost about \$80,000. The water is pumped directly from the wells to the water-tower, from which it is distributed through the city by hydrostatic pressure. This plant furnishes to the city, daily, about 25,000 gallons of water, which is used for all purposes.

S.W. McCallie
Assistant Geologist
A Preliminary Report on the Artesian-Well System of Georgia
Bulletin No. 7, 1898

Water Use in Georgia by County for 2005; and Water-Use Trends, 1980–2005

By Julia L. Fanning and Victoria P. Trent

Prepared in cooperation with the Georgia Department of Natural Resources
Environmental Protection Division

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Contents

Abstract.....	1
Introduction.....	2
Purpose and Scope	2
Water Resources of Georgia	2
Water Use in Georgia, 2005.....	4
Public Supply.....	13
Domestic and Commercial	13
Industrial and Mining	13
Irrigation.....	14
Livestock.....	14
Thermoelectric-Power Generation.....	14
Hydroelectric-Power Generation.....	14
Consumptive Water Use, 2005	15
Water-Use Trends, 1980–2005.....	15
References	17
Appendix A. Standard Industrial Classification (SIC) Codes.....	19
Appendix B. Ground- and Surface-Water Use in Georgia, by County 2005, and Trends for 1980–2005.....	21
Appendix C. Water Withdrawal and Water Use by County in Georgia, 2005 (County of Source Withdrawal Location).....	181

Figures

1. Major river basins in Georgia	2
2. Area of use of principal aquifers and physiographic provinces in Georgia	3
3. Water use by county and source in Georgia, 2005.....	5
4. Water withdrawals by category and source in Georgia, 2005.....	6
5. Percentage of total water use by county and source in Georgia, 2005.....	6
6. Population and water-use trends by source in Georgia, 1980–2005.....	16
7. Trends in total water use by category in Georgia, 1980–2005.....	16

Tables

1. Water-use data sources for Georgia, 2005.....	4
2. Water use by source and category in Georgia, 2005.....	7
3. Industrial water use by major Standard Industrial Classification code in Georgia, 2005.....	7
4. Surface-water use by category, by major river basin, in Georgia, 2005	8
5. Ground-water use by category, by principal aquifer, in Georgia, 2005	8
6. Water use and consumptive use by county in Georgia, 2005	9

Conversion Factors

Multiply	By	To obtain
Area		
acre	4,047	square meter (m ²)
acre	0.00156	square mile (mi ²)
square mile (mi ²)	2.59	square kilometer (km ²)
Volume		
acre-foot (acre-ft)	0.325851	million gallons (Mgal)
gallons per day (gal/d)	3.785	liters per day (L/d)
million gallons per day (Mgal/d)	0.003785	million cubic meters per day (Mm ³ /d)
Energy		
gigawatthour (GWh)	1,000	megawatthour (mWh)
gigawatthour (GWh)	1,000,000	kilowatthour (kWh)

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

Water Use in Georgia by County for 2005; and Water-Use Trends, 1980–2005

By Julia L. Fanning and Victoria P. Trent¹

Abstract

Water use for 2005 for each county in Georgia was estimated using data obtained from various Federal and State agencies and local sources. Total consumptive water use also was estimated for each county in Georgia for 2005. Estimates of offstream water use include the categories of public supply, domestic, commercial, industrial, mining, irrigation, livestock, and thermoelectric power. The only category of instream use estimated was hydroelectric-power generation.

Total offstream water use from ground- and surface-water sources was about 5,471 million gallons per day (Mgal/d) in 2005. Surface water used in the process of thermoelectric-power generation was the largest volume of water withdrawn with withdrawals of 2,717 Mgal/d in 2005. Estimated instream water use for hydroelectric-power generation was 54,096 Mgal/d. Withdrawals for irrigation totaled 752 Mgal/d with 65 percent supplied by ground-water sources. Surface water provided 78 percent of the 1,180 Mgal/d withdrawn for public supply. Many counties in the northern Piedmont physiographic province of Georgia, an area of dense population, had a large percentage of withdrawals from surface-water sources. In contrast, in the southern Coastal Plain physiographic province part of the State, many counties had more withdrawals from ground-water sources.

As part of the Georgia Water-Use Program, statewide water-use estimates have been compiled every 5 years since 1980. During this period, water use was greatest in 1980 at 6,725 Mgal/d. Water use decreased by 31 percent to 5,353 Mgal/d in 1990 then increased to 6,487 Mgal/d in 2000.

By 2005, water withdrawals had decreased to an estimated 5,471 Mgal/d primarily because of a decline in withdrawals for thermoelectric-power generation and a decline in demands as 2005 was a normal year for precipitation compared to 2000, which was in drought. Throughout the period 1980–2005, water withdrawn for thermoelectric-power generation made up the largest volume of offstream water use in Georgia. Total withdrawals for thermoelectric-power generation decreased about 24 percent in 2005 compared to 2000, due to the decommissioning of three power plants in the State. In addition, several plants operated by Georgia Power Company were retooled during this period to increase water conservation. Public-supply use steadily increased from 1980 to 2000, concurrent with increasing population in the State; however, in 2005, there was a slight decrease in public-supply use. Conversely, industrial water use decreased during the period 1980–2005. Water withdrawals for irrigation during 1980–2005 followed changing hydrologic conditions, increasing during drier years (1980 and 2000) and decreasing during normal or wetter years. Withdrawals for the categories of domestic and commercial use remained about the same during 1980–2005. Livestock and mining use increased in 2005 compared to the 2000 estimates because of changes in estimation techniques.

Consumptive water use was determined for each category of use and compiled for each county. Estimation techniques vary for each water-use category. While consumptive use varied for each county in 2005, from about 1 percent to nearly 100 percent of total withdrawals, consumptive-use estimates for the entire State totaled 1,310 Mgal/d, about 24 percent of total withdrawals.

¹Georgia Environmental Protection Division, Atlanta, Georgia

Introduction

Knowledge of the quantity of water withdrawn from available water resources and how that water is used is necessary for resource management. Estimates of how much water is consumed and, therefore, no longer available for immediate use, helps quantify the amount of water available to downstream users. In addition to water withdrawal and consumption, determining water-use trends can provide a basis for estimating future needs. By examining historical patterns and current practices, local and State managers can make more realistic projections of water needs.

To provide water withdrawal and consumptive-use estimates needed for water management, the U.S. Geological Survey (USGS)—in cooperation with the Georgia Department of Natural Resources, Environmental Protection Division (GaEPD)—developed the Georgia Water-Use Program (GWUP) in 1979 (Fanning, 1985). This ongoing program focuses on collecting, compiling, and disseminating water-use information for the State. These data are stored in a central database known as the Georgia Water-Use Data System (GWUDS) maintained by the USGS.

The report for 2005 is the seventh in a series of reports describing water use by county in Georgia. Previous reports published as part of the GWUP include summaries for 1980 (Pierce and others, 1982); 1985 (Turlington and others, 1987); 1987 (Trent and others, 1990); 1990 (Fanning and others, 1992); 1995 (Fanning, 1997); and 2000 (Fanning, 2003). This report is the first in the series to include county summaries of consumptive water use. The report also summarizes surface-water use by basin and ground-water use by aquifer.

Purpose and Scope

This report presents water-use estimates in Georgia for selected water-use categories and estimated consumptive use during 2005. Water-use trends during the period 1980–2005 are also presented. Water-use estimates are reported by county, major river basin, and principal aquifer. Data are presented in tabular form, with maps showing locations of major water users in 2005 and graphs showing 25-year water-use trends.

Water Resources of Georgia

Water resources in Georgia are abundant and have been developed extensively. Climate, geology, and landforms control the distribution of Georgia's water resources. Georgia is a "headwaters" State, with most of the rivers beginning in northern Georgia and increasing in size downstream. Surface water is the primary source of water in northern Georgia; obtaining ground water from the underlying fractured crystalline rock in this area is more difficult than in the Coastal Plain physiographic province because of the complex geology of the area. Most ground-water withdrawals are in the Coastal Plain physiographic province of Georgia where aquifers are well defined and highly productive.

The major river basins in Georgia are the Savannah, Ogeechee, Altamaha, Satilla and St. Marys, Suwannee, Ochlockonee, Apalachicola, Mobile, and Tennessee (fig. 1). The major ground-water sources include the Floridan aquifer system, Claiborne aquifer, Clayton aquifer, Cretaceous aquifer system, crystalline-rock aquifers, and Paleozoic-rock aquifers (fig. 2).

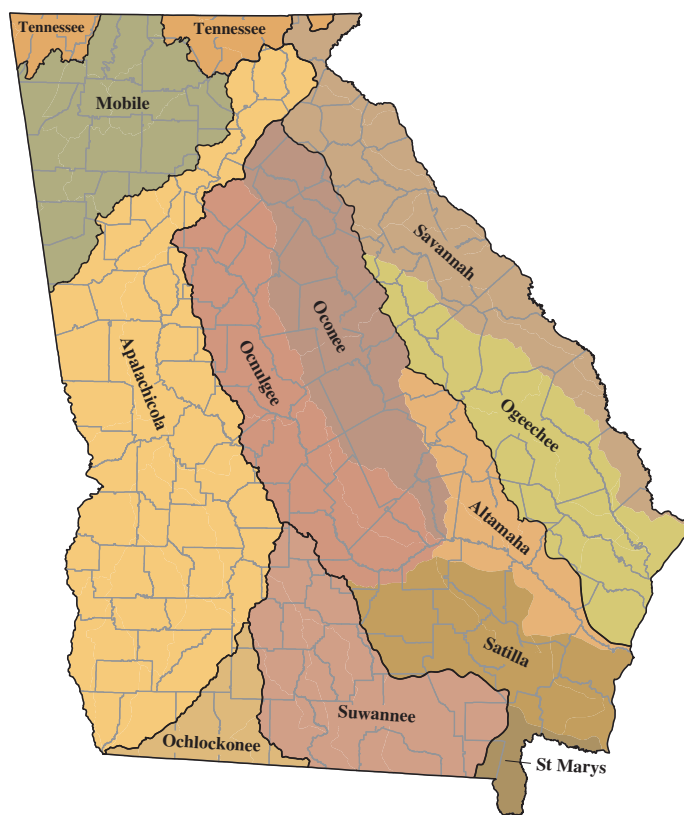


Figure 1. Major river basins in Georgia.

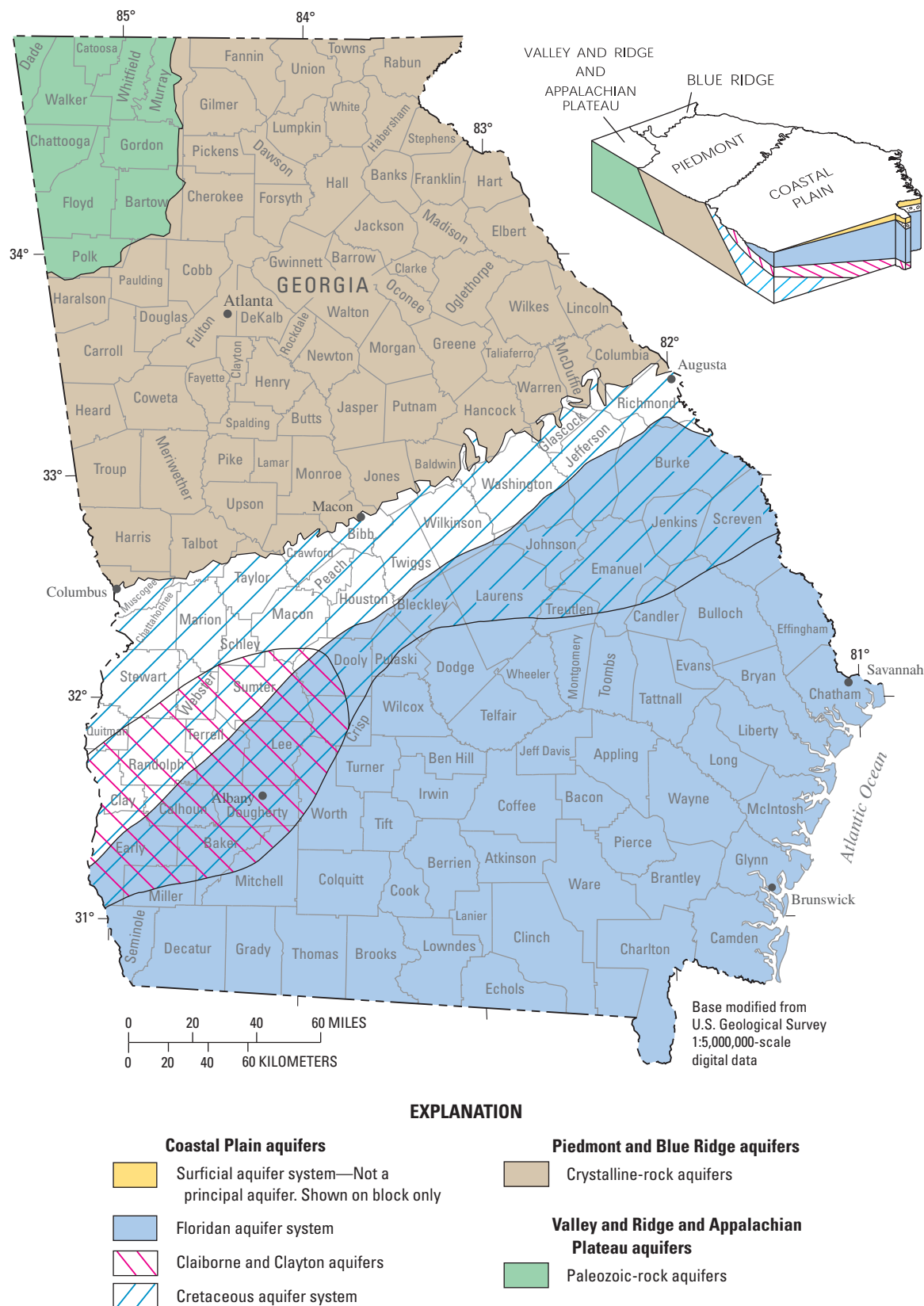


Figure 2. Area of use of principal aquifers and physiographic provinces in Georgia (modified from U.S. Geological Survey, 2006).

Water Use in Georgia, 2005

Water use is subdivided according to offstream and instream use. Offstream use is defined as water withdrawn or diverted from a ground- or surface-water source and transported to the place of use. Offstream water-use categories include public supply, domestic, commercial, industrial, mining, irrigation, livestock, and thermoelectric power. Instream use is that which occurs within a stream channel for such purposes as hydroelectric-power generation, navigation, water-quality improvement, fish propagation, and recreation (Solley and others, 1988).

Georgia law (the Georgia Ground-Water Use Act of 1972 and the Georgia Water Supply Act of 1978) requires any water user who withdraws more than 100,000 gallons per day (gal/d) on a monthly average to obtain a withdrawal permit from the GaEPD. Permit holders generally must report their withdrawals by month. Agricultural permit holders initially were exempt from reporting, and the agricultural water-use reporting system is not yet complete. The GWUP collects the reported information under the withdrawal permit system and the drinking-water permit system and stores the data in GWUDS (table 1).

An estimated 5,471 Mgal/d were withdrawn for off-stream uses throughout Georgia in 2005 (fig. 3). An estimated 4,291 Mgal/d were withdrawn from surface-water sources (78 percent), and of that amount, 63 percent was for thermoelectric-power generation (fig. 4). Estimated ground-water withdrawals (fig. 3, table 2), which include water obtained from springs, were 1,180 Mgal/d in 2005, mostly for irrigation (nearly 41 percent) and industrial and mining uses (nearly 24 percent). The greatest offstream use (60 Mgal/d or greater) occurred in counties where thermoelectric-power plants are located. Exceptions include Cobb, DeKalb, Fulton, and Gwinnett Counties, located in the Metropolitan Atlanta area, where large amounts of water are used for public supply; and Early, Glynn, and Wayne Counties, where large amounts of water are withdrawn for industrial use. The percentage of county water withdrawals by ground- and surface-water sources provides an indication of the relative importance of these resources in each county (fig. 5). The only instream use summarized by the GWUP for this report is for hydroelectric-power generation. In 2005, an estimated 54,096 Mgal/d was used to generate hydroelectric power.

Table 1. Water-use data sources for Georgia, 2005.

[GaEPD, Georgia Environmental Protection Division; WPB, Water Protection Branch; USGS, U.S. Geological Survey]

Water-use category	Data source	Type of data
Public supply	Permit files, GaEPD, WPB, water withdrawal permitting	Withdrawals by permitted users
	Mail survey of operators of large municipal systems	Population served, interconnection of systems
	Drinking Water Program, GaEPD, WPB, water withdrawal permitting	Population served by small public suppliers (subdivisions and mobile home parks)
Domestic	U.S. Bureau of the Census, 2005	County and city populations
Commercial	Permit files; GaEPD, WPB, water withdrawal permitting	Withdrawals by permitted users
Industrial	Permit files; GaEPD, WPB, water withdrawal permitting	Withdrawals by permitted users
Mining	J.K. Lovelace, USGS, written commun., 2006 (estimated from)	Withdrawal estimates by county
	USGS Minerals Information Team data	
Livestock and aquaculture	J.K. Lovelace, USGS, written commun., 2006 (estimated from)	Withdrawal estimates by county
	National Agricultural Statistics Service data	
Irrigation	Cooperative Extension Service, 2004 irrigation survey	Withdrawal estimates and irrigated acreage by county
	Permit files	
	GaEPD, WPB, water withdrawal permitting	Withdrawals by permitted users
	University of Georgia, 1999 golf survey	Acreage, water application rates
Thermoelectric power	Permit files; GaEPD WPB, water withdrawal permitting	Withdrawals by thermoelectric-power plants generation
Hydroelectric-power generation	Power companies, plant owners	Instream use by power plants

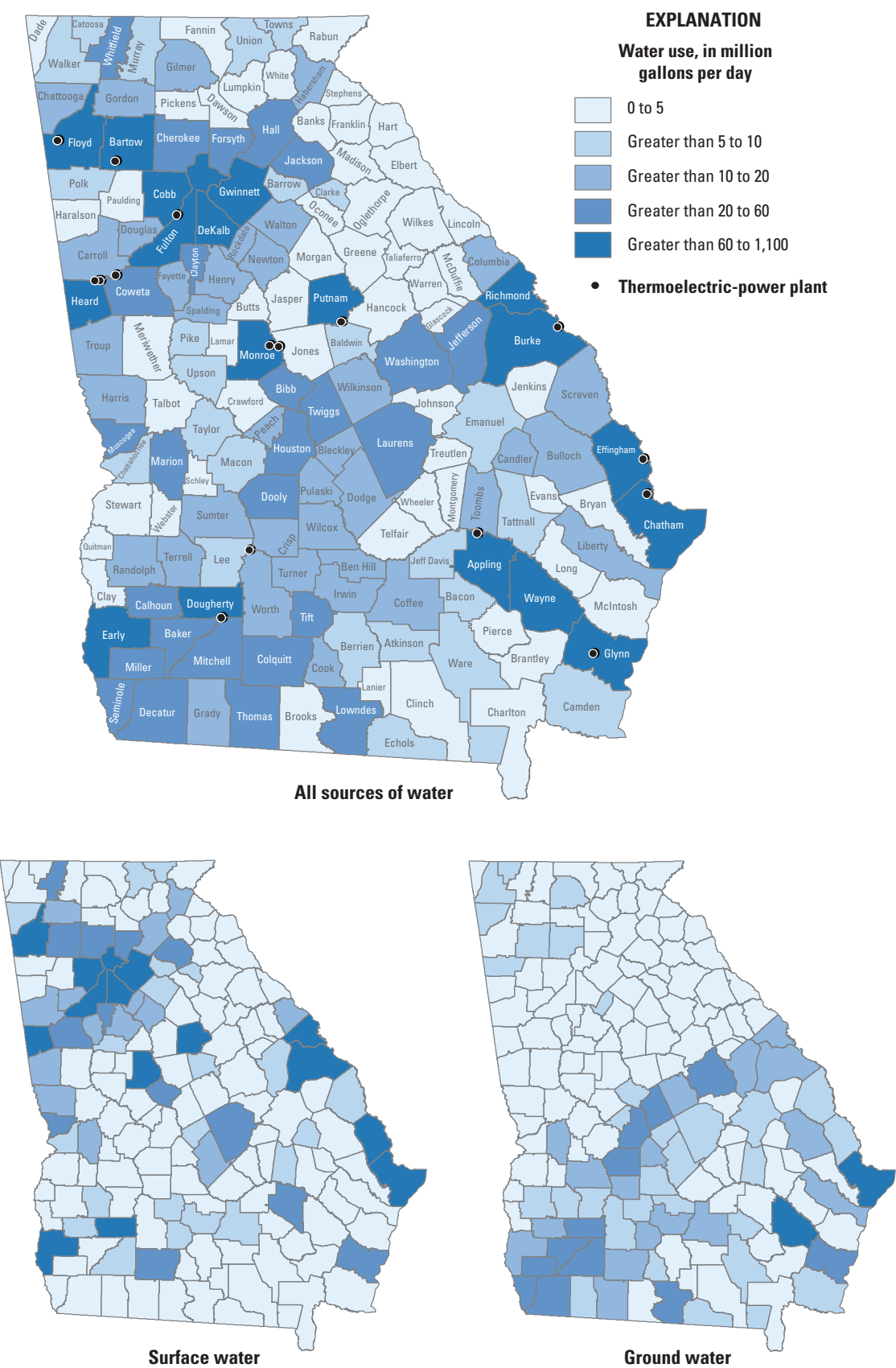


Figure 3. Water use by county and source in Georgia, 2005.

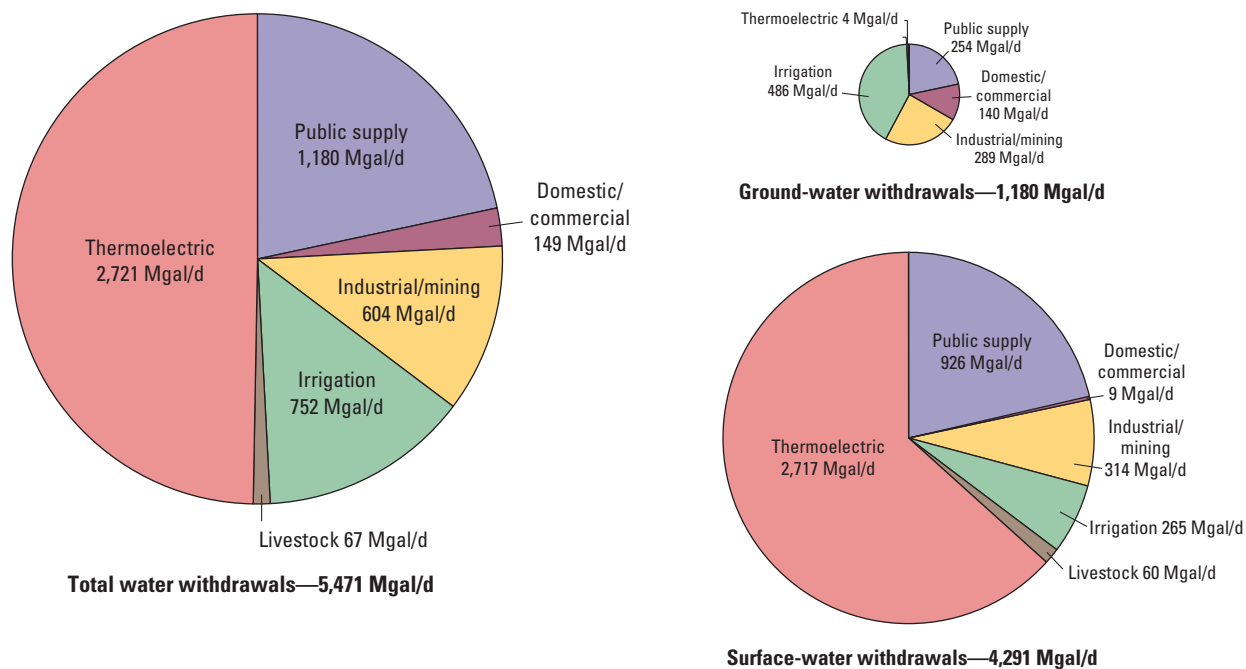


Figure 4. Water withdrawals by category and source in Georgia, 2005.

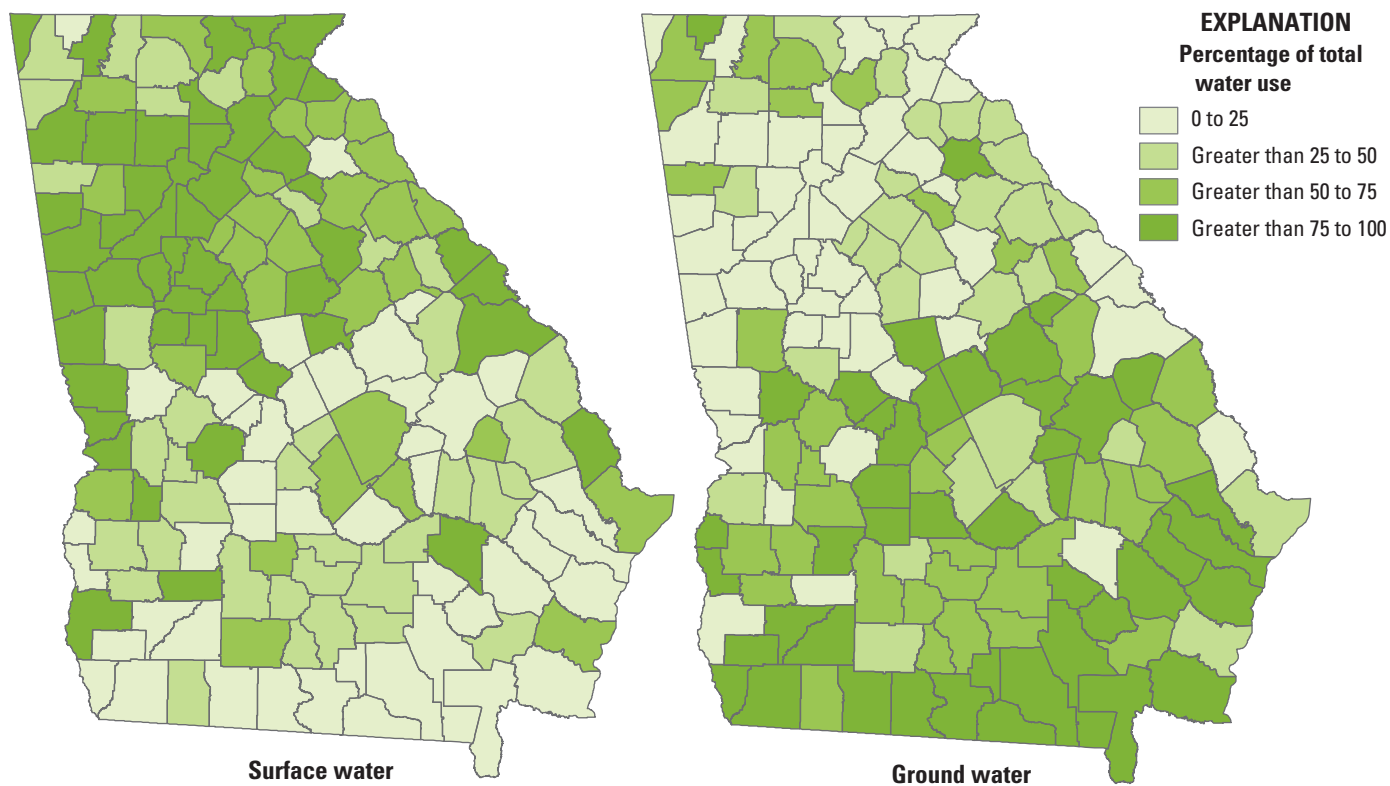


Figure 5. Percentage of total water use by county and source in Georgia, 2005.

Table 2. Water use by source and category in Georgia, 2005.

Population: 9,072,576

Population served by public supply: 7,472,550

Acres irrigated: 1,514,620

Hydroelectric use (million gallons per day): 54,095.63

	Withdrawals, in million gallons per day									
	Public supply	Domestic	Commercial	Industrial	Mining	Irrigation	Livestock	Aqua-culture	Thermo-electric	Totals
Ground water	254.17	119.68	19.85	240.16	48.93	486.36	2.15	4.98	3.76	1,180.04
Surface water	925.68	0.00	9.20	314.00	0.47	265.28	26.29	33.44	2,717.07	4,291.43
Total	1,179.85	119.68	29.05	554.16	49.40	751.64	28.44	38.42	2,720.83	5,471.47

In general, surface-water resources provide the largest percentage of water withdrawal for counties in the northern half of the State, whereas ground water provides the greatest percentage for counties in the southern half of the State. There are exceptions. For several northern Georgia counties, more than 50 percent of the total county withdrawal is obtained from ground water, with ground-water withdrawals exceeding 75 percent in the relatively low water-usage counties of Catoosa, Madison, and Murray. Similarly, there are several southern Georgia counties where surface water provides more than 50 percent of the total withdrawal primarily because of thermoelectric-power plants, with percentages exceeding 75 percent in Appling, Burke, Dougherty, Early, Effingham, Macon, Richmond, and Webster Counties.

This report provides summaries of water use during 2005 in a variety of formats. The total statewide water withdrawals for 2005 by ground- and surface-water sources for public supply, domestic and commercial, industrial and mining, irrigation, livestock, aquaculture, and thermoelectric power are shown in table 2. Industrial water use by major Standard Industrial Classification (SIC) code (Executive Office of the President, Office of Management and Budget, 1987; Appendix A) is listed in table 3. Surface-water withdrawal estimates by major river basin are listed in table 4; and ground-water withdrawals by principal aquifer in the State are listed in table 5. Water withdrawal totals by category and consumptive-use totals for each county are listed in table 6. County summaries of water use are given in Appendix B, including ground- and surface-water withdrawals by water-use category, major public-supply systems, industrial use by SIC code, trend graphs, and a map of withdrawal locations. Small public-water suppliers (subdivisions, mobile home parks, and small towns) and military bases are not listed individually in Appendix B, but the withdrawal for each is included in the county totals.

In this report, water withdrawals are mostly reported according to the county in which the water is used; however,

in some counties, water supply is derived from sources located in an adjacent county. For example, Gwinnett County derives most of its water supply from Lake Sidney Lanier in Hall County. For this reason, Appendix C presents withdrawals according to the location of the water source. Thus, the total withdrawal for Gwinnett County listed in table 6 is 94.2 Mgal/d, whereas the total withdrawal listed in Appendix C is 2.9 Mgal/d. The smaller amount listed in Appendix C indicates supplies are derived from sources outside of the county. Other counties in which water is obtained from sources in adjacent counties for 2005 include Banks, Bartow, Bibb, Clayton, Cobb, DeKalb, Douglas, Fulton, Henry, Jackson, Jones, Meriwether, Pike, Spalding, and Talbot.

Table 3. Industrial water use by major Standard Industrial Classification code in Georgia, 2005.

[SIC, Standard Industrial Classification]

SIC	Withdrawals, in million gallons per day	
	Ground water	Surface water
14—Mining	48.93	0.47
20—Food	9.61	1.94
22—Textiles	8.85	6.19
23—Apparel	0.15	2.16
26—Paper	76.27	276.65
28—Chemicals	80.31	18.08
29—Petroleum	0.37	0.09
30—Rubber	0.57	0.01
32—Stone, clay	60.80	7.44
33—Primary metals	0.03	0.25
34—Fabricated metal products	1.10	0.00
36—Electrical machinery	0.42	0.00

8 Water Use in Georgia by County for 2005; and Water-Use Trends, 1980–2005

Table 4. Surface-water use by category, by major river basin, in Georgia, 2005.

[Figures may not sum to totals because of independent rounding]

Major river basin (fig. 1)	Withdrawals, in million gallons per day						Totals
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermoelectric	
Savannah and Ogeechee	98.66	1.94	104.72	36.95	8.15	317.58	568.00
Altamaha and Satilla and St. Marys	133.00	0.06	52.88	75.28	8.03	1,245.53	1,514.78
Suwannee	0.00	0.00	0.00	47.33	1.18	0.00	48.51
Ochlockonee	0.00	0.00	0.54	16.40	0.34	0.00	17.28
Apalachicola	525.75	6.90	121.84	75.92	16.06	580.04	1,326.51
Mobile	154.78	0.30	32.49	11.31	16.18	573.92	788.98
Tennessee	13.50	0.00	2.00	2.09	9.79	0.00	27.38
Total	925.68	9.20	314.47	265.28	59.73	2,717.07	4,291.43

Table 5. Ground-water use by category, by principal aquifer, in Georgia, 2005.

[Figures may not sum to totals because of independent rounding]

Aquifer (fig. 2)	Withdrawals, in million gallons per day						Totals
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermoelectric	
Floridan aquifer system	135.53	49.61	168.07	297.68	4.08	2.71	657.68
Claiborne aquifer	18.14	6.07	2.65	59.99	1.15	0.85	88.85
Clayton aquifer	9.22	1.64	6.87	51.94	0.16	0.18	70.01
Cretaceous aquifer system	47.18	9.52	80.70	66.92	0.81	0.00	205.13
Crystalline-rock aquifers	18.26	66.42	15.42	7.80	0.29	0.02	108.21
Paleozoic-rock aquifers	25.84	6.27	15.37	2.03	0.64	0.00	50.15
Total	254.17	139.53	289.09	486.36	7.13	3.76	1,180.04

Table 6. Water use and consumptive use by county in Georgia, 2005.

County	Withdrawals, in million gallons per day						Totals	Consumptive use
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric		
Appling	0.93	0.85	0.00	3.09	0.38	57.77	63.02	39.60
Atkinson	0.42	0.32	0.15	6.70	0.28	0.00	7.87	7.13
Bacon	0.76	0.52	0.25	4.68	0.21	0.00	6.42	5.15
Baker	0.11	0.25	0.00	33.31	0.72	0.00	34.39	34.09
Baldwin	6.75	0.04	0.23	0.53	0.08	0.00	7.63	1.64
Banks	0.69	0.93	0.00	0.15	0.69	0.00	2.46	1.12
Barrow	5.01	2.10	0.54	0.63	0.33	0.00	8.61	2.66
Bartow	17.82	0.75	3.93	1.57	0.37	38.92	63.36	32.34
Ben Hill	3.06	0.27	0.00	7.26	0.09	0.00	10.68	7.86
Berrien	0.99	0.69	0.08	3.99	1.11	0.00	6.86	5.44
Bibb	25.53	1.85	15.57	1.06	0.06	0.00	44.07	11.10
Bleckley	0.21	0.58	0.00	12.78	0.05	0.00	13.62	12.97
Brantley	0.20	1.00	1.44	0.11	0.08	0.00	2.83	0.61
Brooks	0.96	0.83	0.13	2.40	0.27	0.00	4.59	3.03
Bryan	1.73	0.82	0.00	0.59	0.01	0.00	3.15	1.06
Bulloch	4.01	1.37	0.03	11.65	0.23	0.00	17.29	12.95
Burke	1.11	1.12	0.05	15.94	0.24	65.36	83.82	59.45
Butts	2.93	0.32	0.00	0.21	0.04	0.00	3.50	0.37
Calhoun	0.78	0.06	0.00	26.11	0.08	0.00	27.03	26.33
Camden	4.06	2.01	0.07	1.38	0.06	0.00	7.58	2.54
Candler	0.46	0.45	0.00	10.01	0.21	0.00	11.13	10.38
Carroll	11.68	1.69	0.34	0.00	0.71	0.00	14.42	2.48
Catoosa	4.68	0.71	0.05	1.05	0.20	0.00	6.69	2.20
Charlton	0.73	0.48	0.00	0.01	0.02	0.00	1.24	0.22
Chatham	33.52	5.06	41.98	2.35	0.01	161.18	244.10	17.46
Chattahoochee	1.03	6.24	0.00	0.15	0.01	0.00	7.43	1.45
Chattooga	3.36	0.29	7.32	0.07	1.24	0.00	12.28	2.95
Cherokee	18.94	5.18	2.52	2.38	0.33	0.00	29.35	7.23
Clarke	6.53	0.02	0.00	0.93	0.09	0.00	7.57	1.98
Clay	0.26	0.11	0.00	0.26	0.03	0.00	0.66	0.36
Clayton	29.96	1.94	0.38	0.88	0.01	0.00	33.17	6.87
Clinch	0.49	0.28	0.04	0.31	0.76	0.00	1.88	1.22
Cobb	91.36	1.00	1.17	2.93	0.03	362.58	459.07	17.29
Coffee	4.68	1.63	0.00	9.15	0.67	0.00	16.13	11.22
Colquitt	3.84	1.47	0.33	30.76	0.35	0.00	36.75	32.09
Columbia	12.55	0.98	0.89	1.13	0.03	0.00	15.58	4.29
Cook	2.09	0.54	0.17	8.28	0.05	0.00	11.13	9.01
Coweta	8.19	0.52	0.28	2.33	0.11	31.08	42.51	21.44
Crawford	0.28	0.76	0.44	3.22	0.17	0.00	4.87	4.00
Crisp	2.10	0.36	0.07	16.20	0.07	0.00	18.80	16.71

Table 6. Water use and consumptive use by county in Georgia, 2005.—Continued

County	Withdrawals, in million gallons per day						Totals	Consumptive use
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric		
Dade	2.35	0.00	0.00	0.46	0.09	0.00	2.90	0.95
Dawson	1.60	0.48	0.00	0.39	0.24	0.00	2.71	0.97
Decatur	2.87	1.45	1.14	36.64	0.23	0.00	42.33	37.96
DeKalb	83.05	3.05	0.97	1.77	0.00	0.00	88.84	19.73
Dodge	0.72	0.92	0.00	17.44	0.85	0.00	19.93	18.57
Dooley	2.21	0.30	0.00	23.59	0.19	0.00	26.29	24.19
Dougherty	13.73	0.90	13.62	10.97	0.03	120.14	159.39	15.52
Douglas	12.39	2.92	0.94	1.77	0.03	0.00	18.05	5.44
Early	0.90	0.45	107.56	14.81	0.18	0.00	123.90	23.17
Echols	0.05	0.27	0.00	5.95	0.01	0.00	6.28	6.02
Effingham	36.29	1.62	17.84	0.52	0.07	94.53	150.87	5.13
Elbert	1.84	0.80	0.04	0.45	0.27	0.00	3.40	1.15
Emanuel	2.03	0.76	0.98	2.70	0.19	0.00	6.66	3.57
Evans	0.56	0.42	1.55	1.58	0.13	0.00	4.24	2.12
Fannin	1.78	0.76	0.00	0.05	0.18	0.00	2.77	0.69
Fayette	11.12	1.74	0.60	1.29	0.04	0.00	14.79	4.25
Floyd	13.39	0.47	26.88	3.47	10.08	535.00	589.29	18.49
Forsyth	17.13	3.15	1.15	0.24	6.85	0.00	28.52	11.45
Franklin	1.93	0.83	0.00	0.26	1.14	0.00	4.16	1.89
Fulton	154.29	1.64	1.34	4.41	0.06	0.00	161.74	25.20
Gilmer	3.22	1.13	5.78	0.17	0.64	0.00	10.94	2.64
Glascocock	0.08	0.12	0.05	0.04	0.04	0.00	0.33	0.12
Glynn	9.85	4.37	64.51	0.00	0.04	36.96	115.73	7.90
Gordon	12.71	0.93	0.09	0.73	0.65	0.00	15.11	3.55
Grady	1.85	0.86	0.35	7.08	0.22	0.00	10.36	7.83
Greene	1.45	0.29	0.16	1.74	0.27	0.00	3.91	2.47
Gwinnett	87.90	0.00	1.21	5.04	0.05	0.00	94.20	20.99
Habersham	5.90	1.32	0.15	0.50	5.33	0.00	13.20	7.22
Hall	18.37	2.29	1.48	0.77	0.80	0.00	23.71	5.45
Hancock	1.02	0.26	0.12	0.04	0.04	0.00	1.48	0.42
Haralson	2.36	0.02	0.00	0.85	0.13	0.00	3.36	1.17
Harris	7.38	0.87	2.40	0.74	0.07	1.20	12.66	3.14
Hart	1.31	1.18	0.11	0.53	0.65	0.00	3.78	1.57
Heard	1.06	0.23	0.09	0.00	0.18	64.33	65.89	22.97
Henry	16.91	0.76	0.63	0.27	0.10	0.00	18.67	3.86
Houston	20.61	1.12	2.74	5.63	0.14	0.00	30.24	10.39
Irwin	0.57	0.47	0.00	16.45	0.08	0.00	17.57	16.71
Jackson	20.04	0.20	0.69	0.57	1.00	0.00	22.50	2.12
Jasper	0.55	1.04	0.78	0.22	0.20	0.00	2.79	0.92
Jeff Davis	0.44	0.51	0.33	4.08	0.22	0.00	5.58	4.52

Table 6. Water use and consumptive use by county in Georgia, 2005.—Continued

County	Withdrawals, in million gallons per day						Totals	Consumptive use
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric		
Jefferson	1.51	0.60	7.58	9.40	1.43	0.00	20.52	12.10
Jenkins	0.42	0.34	0.00	3.95	0.18	0.00	4.89	4.34
Johnson	0.52	0.50	0.00	1.74	0.28	0.00	3.04	2.20
Jones	1.12	1.08	1.70	0.25	0.10	0.00	4.25	2.43
Lamar	1.31	0.68	0.00	0.73	0.18	0.00	2.90	1.24
Lanier	0.45	0.35	0.12	1.23	0.02	0.00	2.17	1.51
Laurens	3.94	1.64	16.90	7.50	0.14	0.00	30.12	9.86
Lee	1.82	1.19	0.13	4.28	0.14	0.00	7.56	5.06
Liberty	4.84	2.48	8.26	0.20	0.01	0.00	15.79	2.14
Lincoln	0.39	0.18	0.00	0.27	0.07	0.00	0.91	0.45
Long	1.49	0.58	0.46	0.40	0.05	0.00	2.98	1.26
Lowndes	10.59	1.65	9.04	9.36	0.08	0.00	30.72	12.36
Lumpkin	1.21	1.49	0.14	0.18	0.22	0.00	3.24	1.00
McDuffie	2.61	0.67	0.00	2.43	0.14	0.00	5.85	3.19
McIntosh	0.73	0.21	0.00	0.15	0.00	0.00	1.09	0.31
Macon	1.59	0.44	10.57	18.26	0.61	0.00	31.47	19.95
Madison	0.42	1.64	0.30	0.34	0.86	0.00	3.56	1.65
Marion	1.91	0.49	0.29	0.49	0.09	0.00	3.27	1.18
Meriwether	1.41	1.08	0.09	0.78	0.22	0.00	3.58	1.44
Miller	0.69	0.28	0.00	21.01	0.11	0.00	22.09	21.29
Mitchell	3.87	1.09	0.03	33.99	0.69	0.00	39.67	35.64
Monroe	1.43	1.17	0.70	0.15	0.33	59.02	62.80	35.65
Montgomery	0.48	0.26	0.01	1.65	0.06	0.00	2.46	1.84
Morgan	1.45	0.71	0.14	0.11	0.51	0.00	2.92	1.33
Murray	3.42	1.84	0.04	0.78	0.21	0.00	6.29	1.70
Muscogee	32.22	0.00	0.47	1.18	0.02	0.00	33.89	7.16
Newton	11.25	2.03	0.32	0.94	0.10	0.00	14.64	2.32
Oconee	0.31	0.89	0.00	0.49	0.32	0.00	2.01	1.02
Oglethorpe	0.22	0.84	0.00	0.34	0.59	0.00	1.99	1.12
Paulding	3.11	1.19	0.24	0.11	0.10	0.00	4.75	1.17
Peach	2.16	0.58	0.00	7.82	0.07	0.00	10.63	8.40
Pickens	2.17	0.55	1.46	0.36	0.32	0.00	4.86	1.68
Pierce	0.59	0.92	0.02	1.86	0.10	0.00	3.49	2.23
Pike	4.49	0.94	0.00	0.29	0.20	0.00	5.92	1.39
Polk	5.96	0.36	1.64	0.73	0.17	0.00	8.86	2.45
Pulaski	0.85	0.29	0.65	14.91	0.04	0.00	16.74	15.19
Putnam	1.21	0.59	0.07	2.89	0.39	1,092.00	1,097.15	6.33
Quitman	0.14	0.04	0.00	0.02	0.01	0.00	0.21	0.06
Rabun	1.97	0.33	1.75	0.58	0.07	0.00	4.70	1.33
Randolph	0.96	0.15	0.06	9.20	0.05	0.00	10.42	9.44

Table 6. Water use and consumptive use by county in Georgia, 2005.—Continued

County	Withdrawals, in million gallons per day						Totals	Consumptive use
	Public supply	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric		
Richmond	43.13	2.44	69.28	2.99	0.03	0.00	117.87	19.24
Rockdale	12.54	4.97	0.15	0.31	0.02	0.00	17.99	3.19
Schley	0.63	0.05	0.00	0.28	0.08	0.00	1.04	0.49
Screven	1.02	0.68	1.73	10.79	0.11	0.00	14.33	11.41
Seminole	0.63	0.39	0.00	38.30	0.12	0.00	39.44	38.62
Spalding	8.07	0.87	0.21	0.81	0.07	0.00	10.03	2.57
Stephens	3.97	0.19	0.11	0.07	0.23	0.00	4.57	1.32
Stewart	0.22	0.04	0.00	0.78	0.06	0.00	1.10	0.88
Sumter	3.05	0.87	0.71	9.10	0.23	0.00	13.96	10.32
Talbot	0.18	0.14	0.91	0.00	0.14	0.00	1.37	1.14
Taliaferro	0.05	0.08	0.00	0.00	0.06	0.00	0.19	0.08
Tattnall	1.12	1.80	0.09	5.40	0.57	0.00	8.98	6.60
Taylor	0.78	0.31	2.56	1.46	0.15	0.00	5.26	2.76
Telfair	1.27	0.31	0.09	3.02	0.06	0.00	4.75	3.37
Terrell	1.48	0.24	0.00	14.40	0.08	0.00	16.20	14.82
Thomas	5.55	0.92	3.04	10.40	0.23	0.00	20.14	14.64
Tift	4.99	1.00	0.00	19.89	0.10	0.00	25.98	20.77
Toombs	2.67	0.68	0.04	7.53	0.16	0.00	11.08	8.34
Towns	2.11	0.05	0.05	0.33	4.04	0.00	6.58	4.68
Treutlen	0.40	0.27	0.00	0.85	0.02	0.00	1.54	0.99
Troup	10.33	0.89	0.27	1.05	0.09	0.00	12.63	2.75
Turner	0.88	0.24	0.00	14.61	0.14	0.00	15.87	14.96
Twiggs	0.30	0.59	19.89	1.40	0.02	0.00	22.20	8.77
Union	1.91	0.52	0.10	0.15	5.40	0.00	8.08	6.03
Upton	2.86	1.16	0.23	0.50	0.28	0.00	5.03	1.40
Walker	7.61	0.02	1.23	0.71	0.35	0.00	9.92	2.53
Walton	5.20	2.61	0.00	2.68	0.26	0.00	10.75	3.93
Ware	3.44	1.27	0.00	2.01	0.13	0.00	6.85	3.02
Warren	0.39	0.20	2.17	1.74	0.10	0.00	4.60	3.19
Washington	3.24	0.70	26.06	5.59	0.14	0.00	35.73	16.63
Wayne	2.09	1.21	59.23	2.60	0.09	0.00	65.22	10.39
Webster	0.17	0.08	0.00	2.64	0.05	0.00	2.94	2.73
Wheeler	0.31	0.34	0.00	4.17	0.03	0.00	4.85	4.31
White	1.89	1.10	0.01	0.29	0.37	0.00	3.66	1.19
Whitfield	35.38	0.07	0.22	0.51	0.71	0.00	36.89	5.89
Wilcox	0.69	0.28	0.00	11.42	0.19	0.00	12.58	11.78
Wilkes	1.20	0.40	0.00	0.02	0.32	0.00	1.94	0.60
Wilkinson	0.93	0.23	17.27	0.08	0.02	0.00	18.53	6.02
Worth	1.34	0.89	0.00	10.66	0.14	0.76	13.79	11.18
Totals	1,179.85	148.73	603.56	751.64	66.86	2,720.83	5,471.47	1,310.21

Public Supply

Public-supply water use is water that is withdrawn by public and private water suppliers and delivered for a variety of uses, including domestic, commercial, industrial, and other uses. Small communities and subdivisions are considered to be public-supply systems if at least 25 people are served or if there are a minimum of 15 hookups or water connections (Hutson and others, 2004).

Data for public-supply water use generally were provided by the GaEPD, Watershed Protection Branch. Additional information was obtained from city managers and operators (table 1). In previous years, the GWUP conducted a survey of the largest public water-supply users in the State for this report. In 2005, however, the survey was expanded to include all permitted public-supply water users in the State. Data were obtained on the population served; the number of connections for each system; and the percentage of water delivered to wholesale, residential, commercial, and industrial customers.

Estimated public-supply withdrawal during 2005 was about 1,180 Mgal/d, of which surface water accounted for about 78 percent (926 Mgal/d), and ground water accounted for about 22 percent (254 Mgal/d) (table 2). The largest public suppliers are located in counties in the Metropolitan Atlanta area in northern Georgia, where population is greatest. Thus, surface water is the principal water source. Several counties in the area reported a decline in withdrawals in 2005, collectively totaling more than 20 Mgal/d. The decrease in 2005 has been attributed to conservation measures at public-supply systems, better reporting by public-supply systems as more systems are metered, and a decrease in outdoor water use (2000 was a drought year and outdoor use, primarily lawn watering, was above normal as compared to 2005 when precipitation was normal, and outdoor uses were lower).

Domestic and Commercial

Domestic water use is water used for normal household purposes, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, washing cars, and watering lawns and gardens. In Georgia, most water for domestic use is provided by public suppliers; however, some households, generally in rural areas, are supplied by individual water systems, primarily wells. These households are termed self-supplied domestic water users. Because self-supplied domestic water use generally is not metered, the GWUP conducted a survey in 1983 in the Athens, Georgia, area and estimated per capita water use was 75 gal/d. Withdrawals by self-supplied domestic users were estimated by subtracting estimates of the number of persons served by public-supply systems from the total county population obtained from the U.S. Bureau of the Census, 2005, and multiplied by 75 (gal/d).

Commercial users include restaurants, hotels, retail stores, and other businesses, government and military facilities, prisons, schools, hospitals, office parks, and other institutions, and recreational facilities. Golf course irrigation is also included as a commercial use. In Georgia, there are very few commercial users large enough to require a GaEPD permit, so reported commercial water-use data are minimal, and these data were combined with estimates for smaller users.

Domestic and commercial water use was estimated to be 149 Mgal/d in 2005 (table 2), of which 120 Mgal/d was for self-supplied domestic use, and 29 Mgal/d was for commercial use. The estimated self-supplied population was 1,600,026. Statewide, an estimated 18 percent of the population is self-supplied, and this water is assumed to be from ground water (wells and springs). Sixty-eight percent of commercial water use was from ground-water sources, and 32 percent was from surface-water sources.

Industrial and Mining

Industrial water use includes fabrication, processing, washing, and cooling for facilities that manufacture products, including steel, chemical and allied products, paper and allied paper products, mining, and petroleum refining. The largest industrial water users in Georgia are pulp and paper mills concentrated along the coast, the textile industries concentrated in northwestern Georgia, chemical manufacturers, and the mining and mineral industries.

Mining water use is water used for the extraction of minerals, including water used for quarrying, milling, and other typical preparations at a mine site. Granite, clay, marble, and other materials are mined extensively in the State, but these mining operations, other than clay, do not require large quantities of water. Mining water-use estimates were provided by the USGS National Water-Use Program from mine production data for 2004 from the USGS Minerals Information Team and the Energy Information Administration and commodity-specific coefficients (J.K. Lovelace, U.S. Geological Survey, written commun., 2007). The total mining withdrawal estimate was allocated between ground and surface water using the ratio by county for mining withdrawals for 2000 (Fanning, 2003).

Industrial and mining water-use estimates totaled 603 Mgal/d (table 2) during 2005. Self-supplied industries in Georgia used about 554 Mgal/d of water in 2005, of which 43 percent was from ground water, and 57 percent was from surface water. The industrial water-use estimate was determined from withdrawals reported to the GaEPD for 2005. There was a decrease in industrial water withdrawals between 2000 and 2005, mostly because of the closure of a major pulp and paper company in Camden County, Georgia. During 2005, the estimated mining withdrawal was about 49 Mgal/d. Nearly, 99 percent of the withdrawals for mining were from ground-water sources, and 1 percent were from surface-water sources.

Irrigation

Irrigation water use is water used for crops, large nurseries, athletic fields, and golf courses. Estimates of irrigation water use are based on a 2004 irrigation survey conducted by the University of Georgia, Cooperative Extension Service (Kerry Harrison, Cooperative Extension Service, written commun., 2004). County extension agents were asked to provide data on crop acreage, water application rates by crop for each county, and percentages of ground- and surface-water use. Withdrawal data for permitted users were provided by GaEPD. Withdrawals for golf irrigation were estimated using water application rates provided by the University of Georgia (Gil Landy and Clint Waltz, University of Georgia, written commun., 1999). In this report, the 2004 irrigation data were used because 2005 data were not available.

Estimated total irrigation water use in 2004 was about 752 Mgal/d (65 percent from ground water and 35 percent from surface water; table 2), a decrease of about 338 Mgal/d from the 2000 estimate. This 30-percent decrease results from decreased irrigation as compared to irrigation during the drought in 2000. Most irrigation occurs in the Coastal Plain physiographic province, with the largest withdrawal in the southwestern part of the State. Irrigation withdrawal accounts for more than 95 percent of total water use in some counties in southwestern Georgia. Irrigation is the largest category of ground-water use in Georgia, accounting for 41 percent of all ground water withdrawn.

Livestock

Livestock water use is water used for livestock watering, feed lots, dairy operation, and farm operation for poultry, horses, cattle, hogs, and catfish and trout farms. Estimates of water use for livestock were compiled by animal type (cattle, hogs, horses, and several kinds of poultry) and by pond acreage for catfish and trout farming. Livestock water-use estimates were provided by the USGS National Water-Use Program from U.S. Department of Agriculture, National Agricultural Statistics Service livestock population estimates, and animal specific (J.K. Lovelace, U.S. Geological Survey, written commun., 2007). Coefficients were the same as those used for the 2000 estimate of water use in Georgia (Fanning, 2003). The total withdrawal estimate was allocated between ground and surface water, using the county ratio for livestock withdrawals for 2000 (Fanning, 2003).

In this report, the livestock category also includes aquaculture, which is the farming of organisms that live in water, such as fish, shellfish, and algae. In 2005, aquaculture in Georgia included catfish and trout farms. Aquaculture water use was estimated using data for commercial and non-commercial aquaculture operations (J.K. Lovelace, U.S. Geological Survey, written commun., 2007).

Livestock water use in 2005 was estimated to be about 67 Mgal/d (table 2), with 28 Mgal/d for livestock animals and 38 Mgal/d for catfish and trout farms. About 89 percent of all livestock withdrawals were from surface-water sources, and only 11 percent were from ground-water sources.

Thermoelectric-Power Generation

Thermoelectric-power water use is water used in the generation of thermoelectric power, mainly for cooling purposes. Thermoelectric-power water use includes 13 plants that operate on fossil fuels, such as oil, coal, or natural gas, and 2 nuclear-powered plants. Data were obtained from the GaEPD Water Resources Management Program, which collects data on the amount of water treated for potable use and for boiler makeup. Also, plant operators were contacted directly for additional information on cooling water and other water uses at each power plant. Estimated thermoelectric-power water use during 2005 was about 2,721 Mgal/d (table 2), a decrease of 589 Mgal/d from 2000. Three thermoelectric-power plants—Arkwright (Bibb County), Atkinson (Cobb County), and Riverside (Chatham County)—have closed since 2000. Plant Yates, a facility in Coweta County, converted from once-through cooling to a closed cooling system with cooling towers in 2004.

Hydroelectric-Power Generation

Instream water use for hydroelectric-power generation is the largest water-use category for Georgia, with an estimated 54,096 Mgal/d used in 2005 (table 2). Hydroelectric-power water use is instream water used for the generation of electricity at plants where turbine generators are driven by falling water. Data on the number of gallons used by each plant to generate one megawatt-hour of electricity was obtained from plant operators and multiplied by the monthly power generation to estimate the water used at each plant in 2005. Hydroelectric-power water use for 2005 increased 41 percent over use in 2000, a year of drought.

Consumptive Water Use, 2005

The distinction between the amount of water withdrawn for use and the amount of water consumed during use is important for water planning and management. Consumptive water use is the part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water environment (Hutson and others, 2004, p. 44). For many withdrawals, data on the amount withdrawn that was returned to the immediate water environment (either a ground- or surface-water system) are not available. Water sales and purchases and interbasin transfers make it difficult to relate withdrawals to return flows. For example, an industrial facility might withdraw some water from wells and purchase additional water from a public supplier. Some of the total water used at that facility then might be returned directly to a stream (if it was noncontact cooling water) and some might be treated at a public or private waste treatment plant and the treated wastewater returned to a stream. Because of the difficulties in obtaining and compiling data on the amount of water returned to the environment for each withdrawal, consumptive use was estimated from the withdrawal amounts and consumptive-use coefficients by water-use category. Although estimates derived using coefficients can provide insight into consumptive water use, the results are not as accurate as metered data on withdrawals and return flows.

The consumptive-use coefficients vary for each of the water-use categories. Because public supply delivered water to domestic, commercial, industrial, and thermoelectric-power users, consumptive use is estimated for those use categories and not for public supply. The total water used in the categories is the sum of water withdrawn (self-supplied water) and water delivered from public suppliers. For domestic water use, consumptive use was estimated at 18 percent of the total use (Atlanta Regional Commission, written commun., 2007). The consumptive-use coefficient for commercial use was developed by the GWUP and supported by calculations using withdrawal and discharge data for some commercial users and estimated to be 18 percent.

For industrial and mining use, consumptive-use coefficients were determined by industry type and type of mining activity. For example, the estimated consumptive-use coefficient for the pulp and paper industry is 7 percent for 2005, whereas for the textile industry the coefficient is 13 percent. Although the coefficient is less, more water actually is consumed by pulp and paper industries than by textile industries in Georgia because of the larger amount of water being withdrawn for production.

In this report, irrigation and livestock water uses are considered to be 100 percent consumed; that is, all of the water withdrawn was evaporated or transpired, incorporated into crops, or consumed by livestock. Irrigation in Georgia uses sprinkler and micro-irrigation methods, which do not have the large nonconsumptive amounts of water as do flood irrigation methods. Consumptive-use coefficients for thermoelectric power ranged from 0 to nearly 70 percent, and is determined by the type of plant cooling (once-through cooling or cooling towers or ponds). Consumptive use is negligible for instream hydroelectric-power generation.

Estimated consumptive use by county for 2005 is listed in table 6. Total consumptive use was estimated to be about 1,310 Mgal/d or 24 percent of total withdrawals in the State.

Water-Use Trends, 1980–2005

Since 1980, the GWUP has compiled and published statewide water-use estimates by category at 5-year intervals. National water-use compilations began in 1950. However, during the period 1950–2005, water-use estimates were not always comparable. Category definition and estimation techniques have been the most consistent since 1980 because of efforts of the National Water-Use Information Program (NWUIP). In Georgia, total estimated water use for 1980 was 6,725 Mgal/d (Pierce and others, 1982). By 1990, total estimated water use had declined about 31 percent to 5,353 Mgal/d. Statewide water use increased in 1995 and 2000 to reach 6,487 Mgal/d. In 2005, estimated water use was 5,471 Mgal/d, a decrease of 1,015 Mgal/d (about 19 percent) since 2000 (fig. 6).

Statewide public-supply water use steadily increased from 1980 to 2000, corresponding to an increase in population (from 4,189,000 to 8,186,450) during the same period; however, water use slightly decreased from 2000 to 2005 (fig. 7). Commercial, domestic, and livestock uses remained about the same for the period 1980–2005. Industrial water use fluctuated during the period 1980–2005, mostly because of improved water efficiency, water recycling, and conservation measures at industrial plants and changes in the number and type of industrial facilities. Major decreases in industrial water use in Glynn and Camden Counties were likely caused by chemical and paper plant closings and more efficient water-use practices at the remaining plants.

Irrigation water use declined from 1980 to 1985 and again to 1990, increased from 1995 to 2000, and decreased markedly from 2000 to 2005. Estimated irrigation withdrawal was 30 percent lower in 2005 than in 2000 because

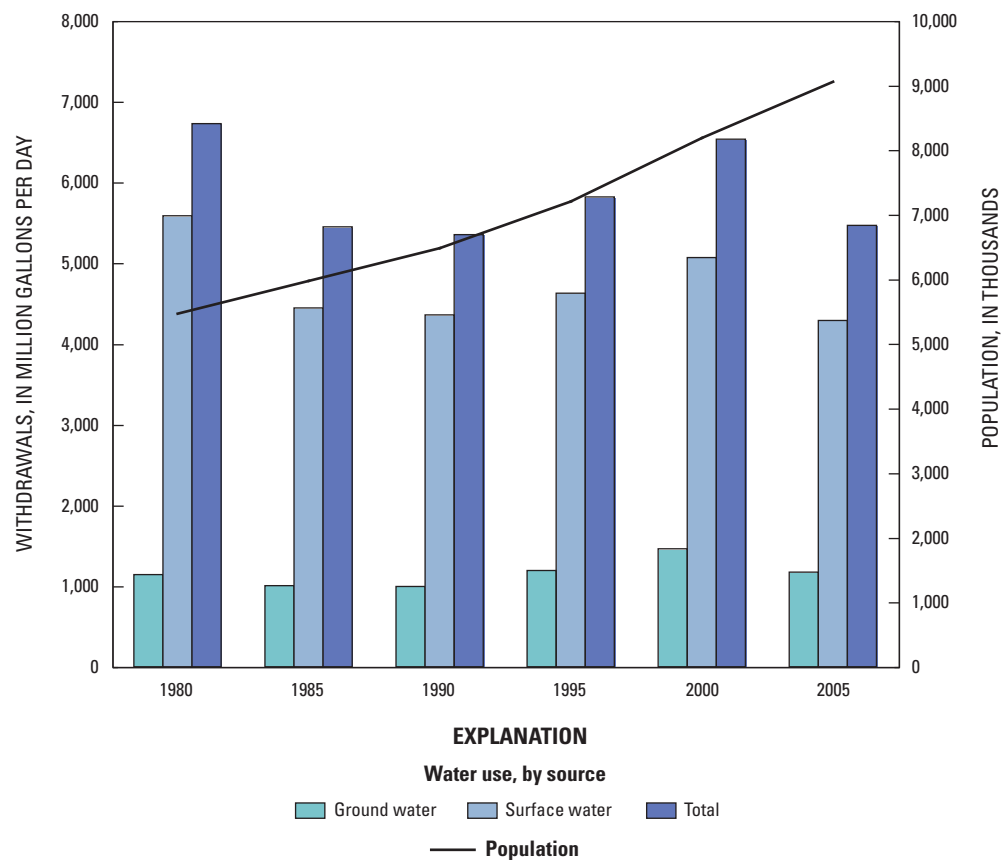


Figure 6. Population and water-use trends by source in Georgia, 1980–2005.

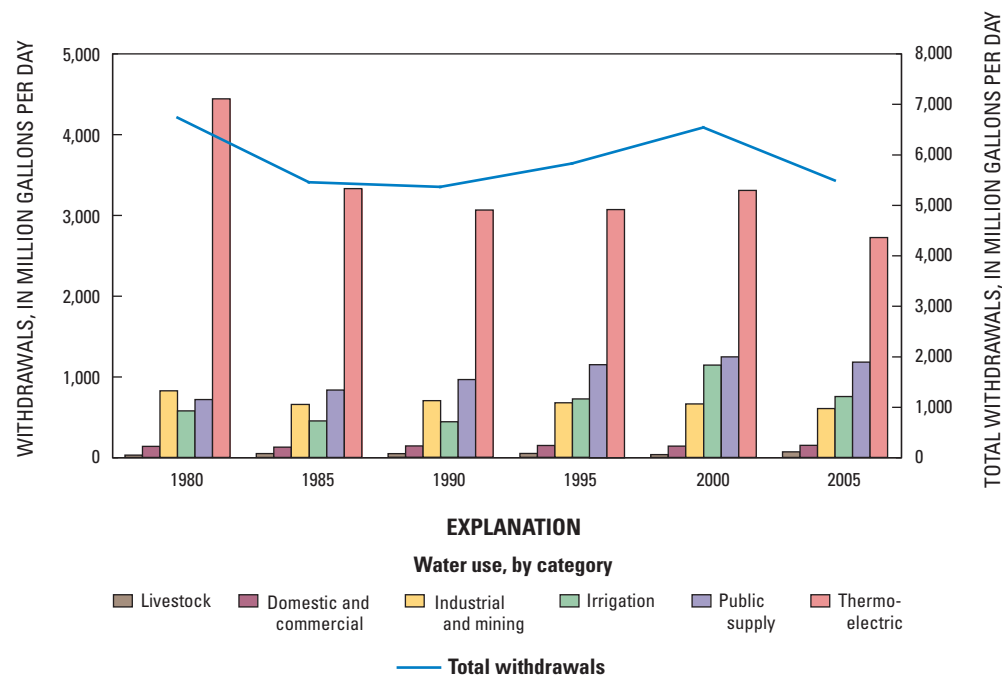


Figure 7. Trends in total water use by category in Georgia, 1980–2005.

of decreased irrigation demands resulting from the greater amount of rainfall in 2005, which relieved the prolonged drought that began in 1998 and continued through 2002 (Georgia Department of Natural Resources, 2000). The total number of acres irrigated in the State increased by nearly 32 percent between 1995 and 2005.

Thermoelectric-power water continues to be the largest of any offstream category in Georgia. Thermoelectric-power withdrawal peaked in 1980, dropped sharply in 1985, and declined again in 1990 before increasing in 1995 and 2000. This rising trend was reversed in 2005 when thermoelectric power decreased by 24 percent from 2000 because of the decommissioning of three power plants and retrofitting cooling towers at several other plants.

Instream hydroelectric-power generation requires the use of significant amounts of water. From 1980 to 1995, hydroelectric-power water use was increasing. However, because hydroelectric-power water use is dependent on the availability of surface-water flow, low-flow conditions related to drought in 1995 and 2000 resulted in a 19,000 Mgal/d decrease in usage. In 2005, water used for hydroelectric-power generation rose significantly to 54,096 Mgal/d, an increase of 22,206 Mgal/d (59 percent) from 2000, because of the increased surface-water flow.

The GWUP has been compiling and disseminating water-use information on water users in the State for more than 25 years. While these data have been useful to managers making policy decisions for the water resources in Georgia, continued monitoring of water-use information is necessary. The GWUP is working to develop a site-specific database of reported information to improve data aggregation techniques, provide better quality assurance, and improve trend data. An Internet-based system capable of online interactive updating and reporting of water withdrawal by permitted user would allow for more timely data collection and data accuracy. Additionally, the site-specific database could be improved further to be aligned with other databases and could incorporate metered irrigation data. Also, data on public supply and industrial discharges in the State could be added. Other considerations, such as the reduction in permit limits from 100,000 gal/d to 10,000 gal/d, which has been adopted in some adjoining States, would improve the available data for smaller industrial and mining users and some small public suppliers.

References

Executive Office of the President, Office of Management and Budget, 1987, Standard industrial classification manual, 1987: Springfield, Va., National Technical Information Service, Order no. PB 87-100012, 649 p.

- Fanning, J.L., 1985, The Georgia water-use program: U.S. Geological Survey Open-File Report 85-481, pamphlet.
- Fanning, J.L., 1997, Water use in Georgia by county for 1995: Georgia Geologic Survey Information Circular 101, 95 p.
- Fanning, J.L., 2003, Water use in Georgia by county for 2000 and water-use trends for 1980-2000: Georgia Geologic Survey Information Circular 106, 176 p.
- Fanning, J.L., Doonan, G.A., and Montgomery, L.T., 1992, Water use in Georgia by county for 1990: Georgia Geologic Survey Information Circular 90, 98 p.
- Georgia Department of Natural Resources, Environmental Protection Division, 2000, 1998-2000 Georgia drought report: Georgia Department of Natural Resources, 43 p.
- Georgia Department of Natural Resources, Environmental Protection Division, 2008a, Existing rules and corresponding laws, 391-3-2 Groundwater Use, accessed July 24, 2008, at http://www.georgiaepd.org/Documents/rules_exist.html
- Georgia Department of Natural Resources, Environmental Protection Division, 2008b, Existing rules and corresponding laws, 391-3-5 Safe Drinking Water, accessed July 24, 2008, at http://www.georgiaepd.org/Documents/rules_exist.html
- Hutson, S.S., Barber, N.L., Kenny, J.F., Linsey, K.S., Lumia, D.S., and Maupin, M.A., 2004, Estimated use of water in the United States in 2000: U.S. Geological Survey Circular 1268, 46 p.
- Pierce, R.R., Barber, N.L., and Stiles, H.R., 1982, Water use in Georgia by county for 1980: Georgia Geologic Survey Information Circular 59, 180 p.
- Solley, W.B., Merk, C.F., and Pierce, R.R., 1988, Estimated use of water in the United States in 1985: U.S. Geological Survey Circular 1004, 82 p.
- Trent, V.P., Fanning, J.L., and Doonan, G.A., 1990, Water use in Georgia by county for 1987: Georgia Geologic Survey Information Circular 85, 112 p.
- Turlington, M.C., Fanning, J.L., and Doonan, G.A., 1987, Water use in Georgia by county for 1985: Georgia Geologic Survey Information Circular 81, 110 p.
- U.S. Bureau of the Census, 2005, Estimates and projections of population, 2005: Washington, D.C., U.S. Department of Commerce, series P25, variously paged.
- U.S. Geological Survey, 2006, Georgia's ground-water resources and monitoring network, 2006: U.S. Geological Survey Fact Sheet 2006-3077, 2 p.

Appendix A. Standard Industrial Classification (SIC) Codes

Industrial water use is given by industry type, classified by Standard Industrial Classification (SIC) Code. A brief description of the codes used in this publication is given below.

14–Mining and quarrying of nonmetallic minerals, except fuels. This major group includes establishments engaged in mining or quarrying, developing mines, or exploring for non-metallic minerals, except fuels. Also included are certain well and brine operations, and primary preparation plants, such as those engaged in crushing, grinding, washing, or other concentration.

20–Food and kindred products. This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

22–Textile mill products. This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broad woven fabric, narrow woven fabric, knit fabric and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, non-woven fabrics and miscellaneous textiles.

23–Apparel and other finished products made from fabrics and similar materials. This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics, and furs.

24–Lumber and wood products, except furniture. This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lathe mills, shingle mills, cooperage stock mills, planing mills, and pulpwood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes.

26–Paper and allied products. This major group includes the manufacture of pulps from wood and other cellulose fibers, and from rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes, and envelopes.

28–Chemicals and allied products. This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three

general classes of products: (1) basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; and (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps, or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives.

29–Petroleum refining and related industries. This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials.

30–Rubber and miscellaneous plastics products. This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries.

32–Stone, clay, glass, and concrete products. This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand.

33–Primary metal industries. This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and non-ferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable.

34–Fabricated metal products, except machinery and transportation equipment. This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, hand tools, cutlery, general hardware, non-electric heating apparatus, fabricated structural metal products, metal forging, metal stamping, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified.

35–Machinery, except electrical. This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical equipment (Major Group 36) and transportation equipment (Major Group 37).

36–Electrical and electronic machinery, equipment, and supplies. This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy.

Appendix B. Ground- and Surface-Water Use in Georgia, by County 2005, and Trends for 1980–2005

The following tables list ground- and surface-water withdrawals by water-use category. Also listed is information about:

- major public suppliers,
- major industrial groups,
- county populations,
- population served by public supply, and
- acres irrigated.

Trend graphs and maps showing ground- and surface-water system locations are included.

APPLING COUNTY

Population: 17,954

Population served by public supply: 6,660

Acres irrigated: 7,110

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

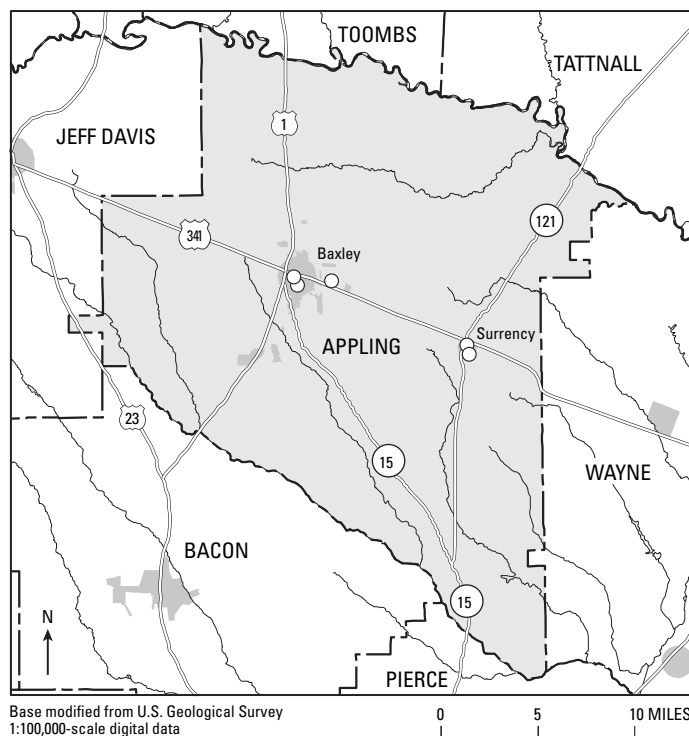
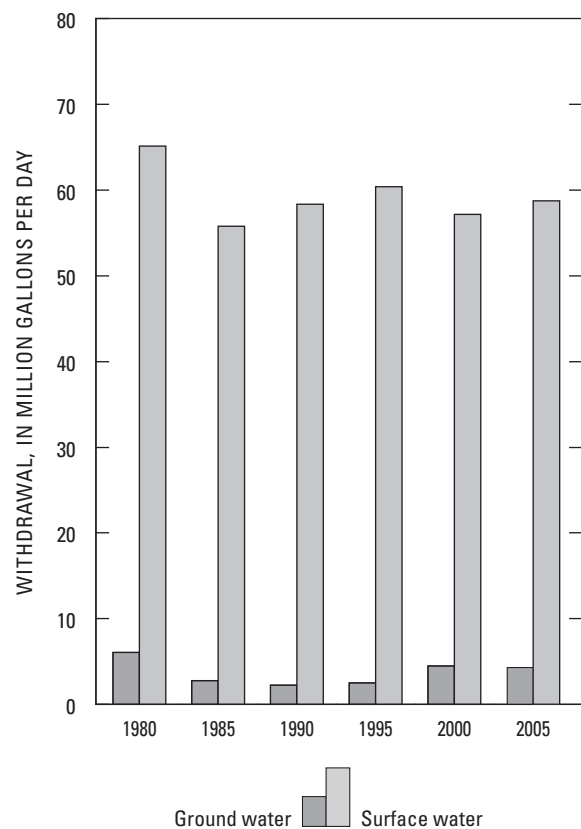
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.93	0.85	0.00	2.24	0.07	0.18	4.27
Surface Water	0.00	0.00	0.00	0.85	0.31	57.59	58.75
TOTALS	0.93	0.85	0.00	3.09	0.38	57.77	63.02

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Baxley	0.87	0.00
City of Surrency	0.04	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

○ Ground water

ATKINSON COUNTY

Population: 8,030

Population served by public supply: 3,750

Acres irrigated: 9,330

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

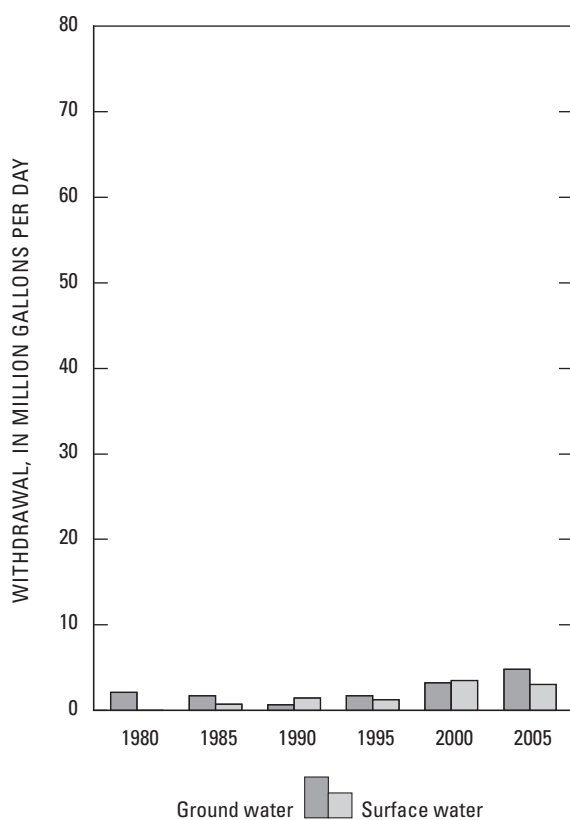
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.42	0.32	0.15	3.89	0.04	0.00	4.82
Surface Water	0.00	0.00	0.00	2.81	0.24	0.00	3.05
TOTALS	0.42	0.32	0.15	6.70	0.28	0.00	7.87

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Pearson	0.22	0.00
Town of Willacoochee	0.19	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



BACON COUNTY

Population: 10,379

Population served by public supply: 3,380

Acres irrigated: 7,990

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

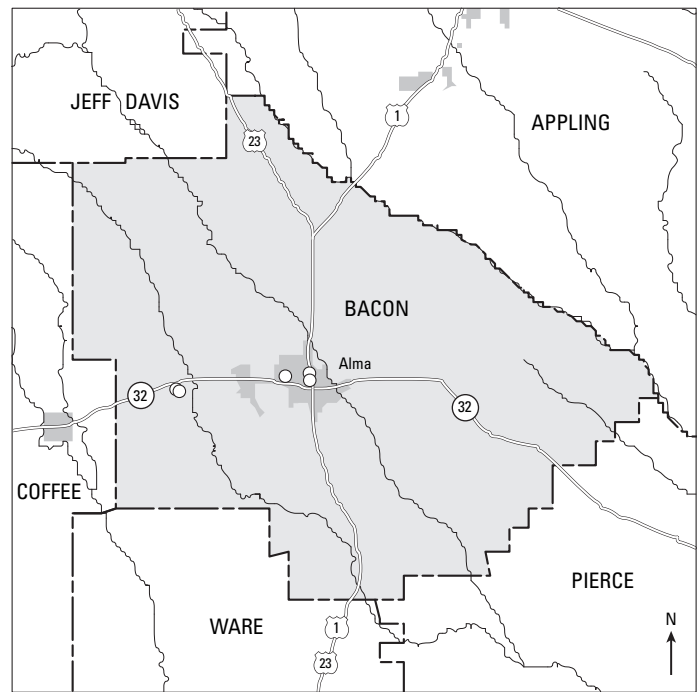
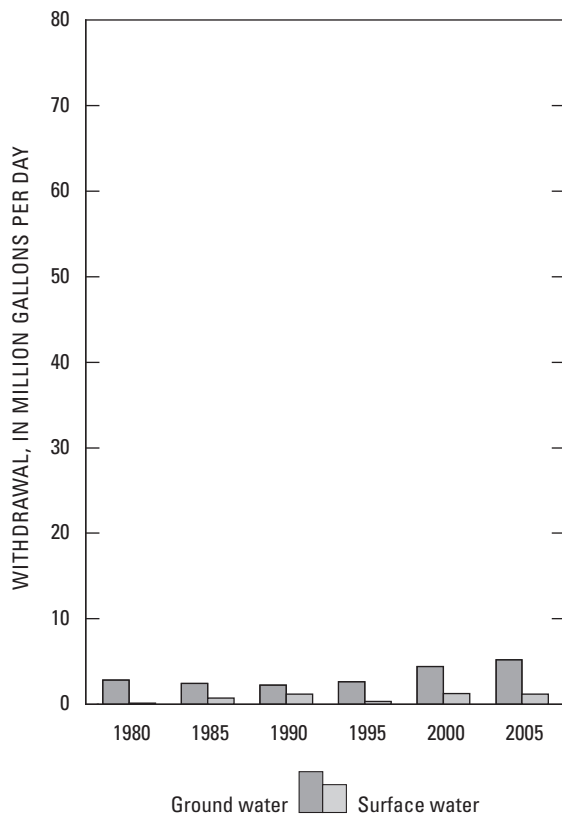
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.76	0.52	0.25	3.68	0.02	0.00	5.23
Surface Water	0.00	0.00	0.00	1.00	0.19	0.00	1.19
TOTALS	0.76	0.52	0.25	4.68	0.21	0.00	6.42

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Alma	0.75	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.24	0.00

**WITHDRAWAL LOCATION
FOR MAJOR USER**

○ Ground water

BAKER COUNTY

Population: 4,154

Population served by public supply: 850

Acres irrigated: 49,580

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

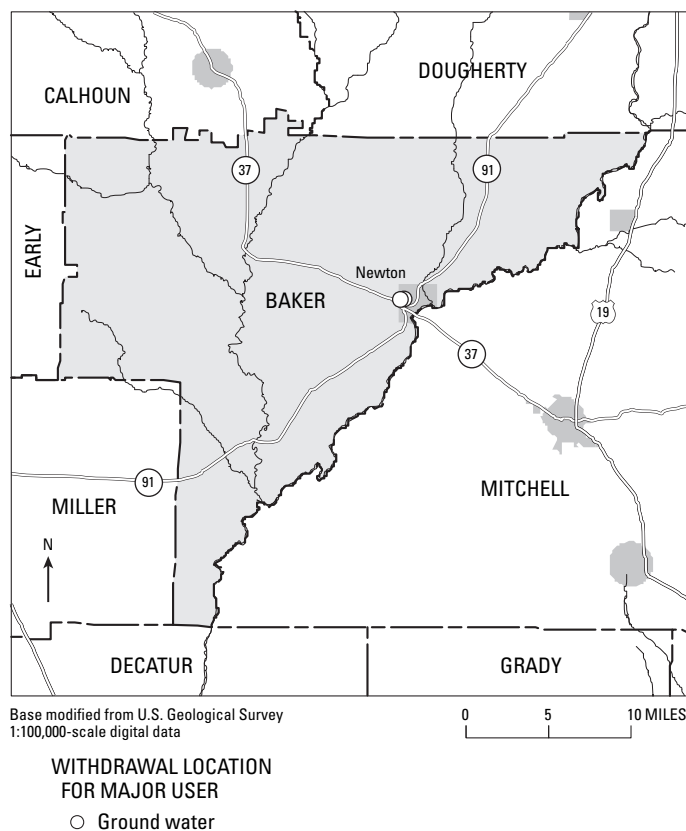
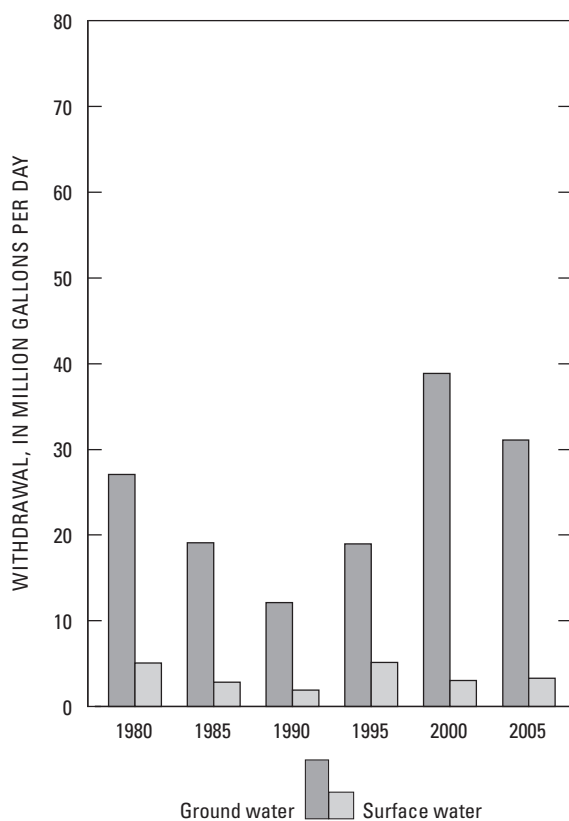
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.11	0.25	0.00	30.75	0.00	0.00	31.11
Surface Water	0.00	0.00	0.00	2.56	0.72	0.00	3.28
TOTALS	0.11	0.25	0.00	33.31	0.72	0.00	34.39

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Newton	0.11	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



BALDWIN COUNTY

Population: 45,230

Population served by public supply: 44,750

Acres irrigated: 400

Hydroelectric use (Mgal/d): 1,692.16

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

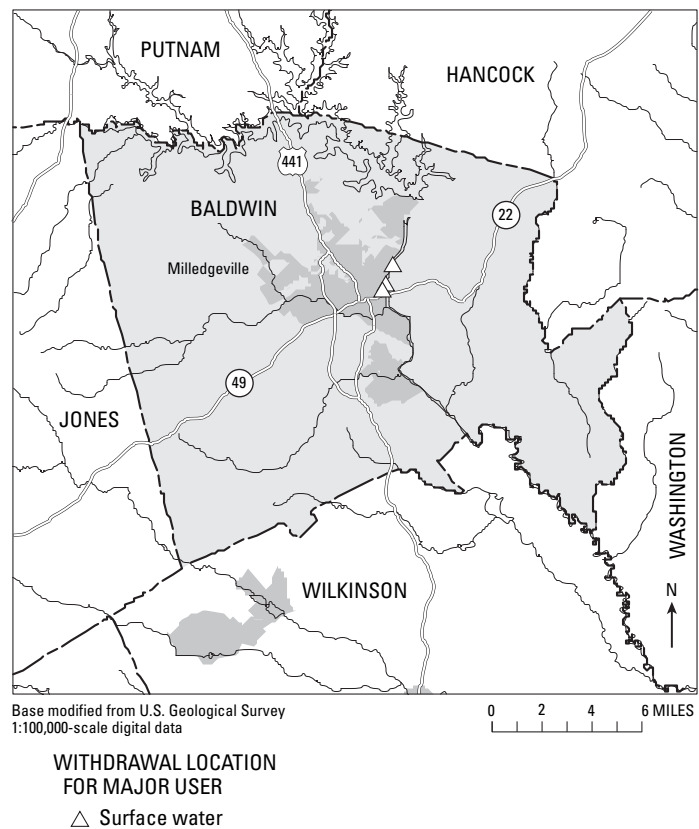
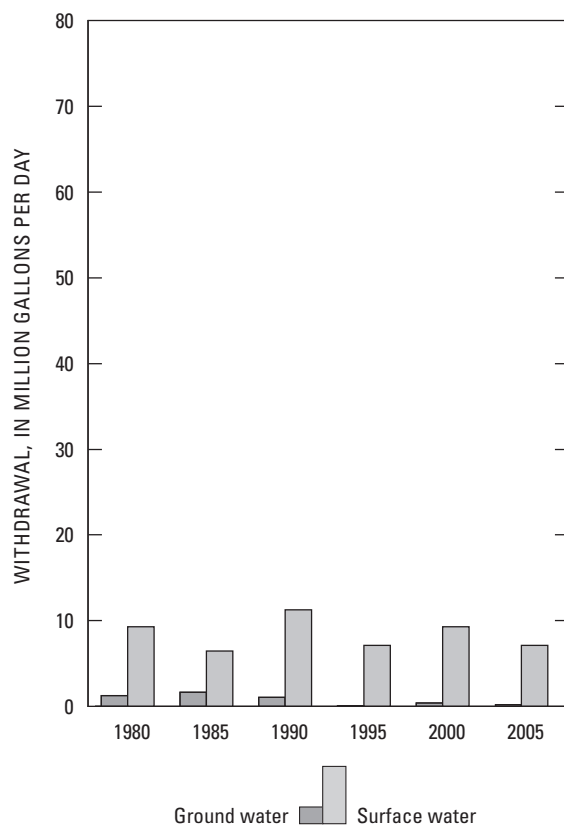
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.04	0.23	0.24	0.00	0.00	0.51
Surface Water	6.75	0.00	0.00	0.29	0.08	0.00	7.12
TOTALS	6.75	0.04	0.23	0.53	0.08	0.00	7.63

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Milledgeville	0.00	6.75

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



BANKS COUNTY

Population: 16,055

Population served by public supply: 6,850

Acres irrigated: 100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

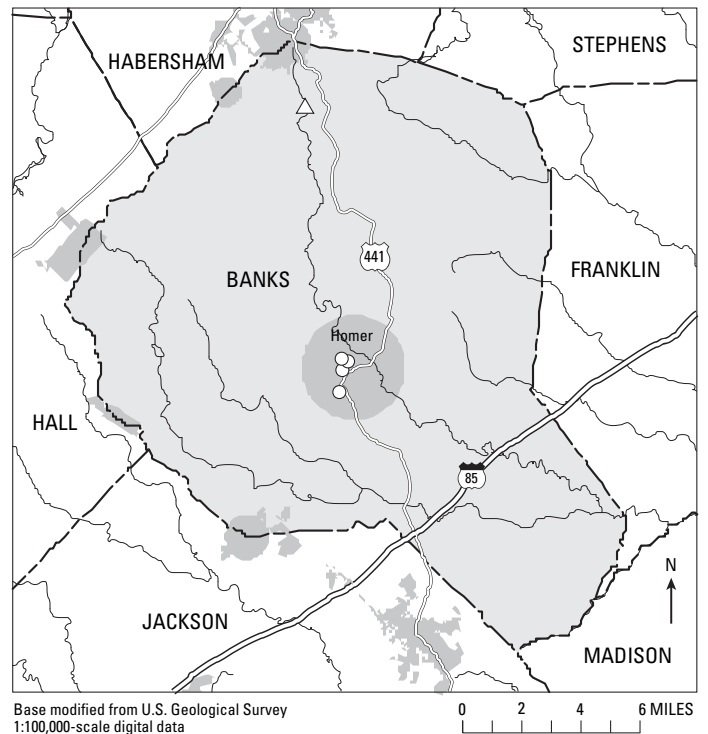
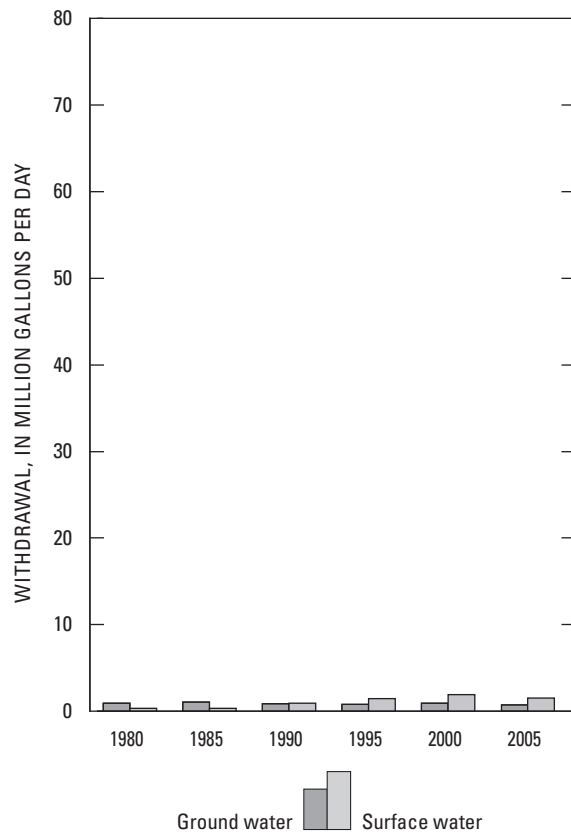
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.07	0.69	0.00	0.00	0.00	0.00	0.76
Surface Water	0.62	0.24	0.00	0.15	0.69	0.00	1.70
TOTALS	0.69	0.93	0.00	0.15	0.69	0.00	2.46

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Banks County Board of Commissioners	0.00	0.62
Town of Homer	0.07	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

BARROW COUNTY

Population: 59,954

Population served by public supply: 31,890

Acres irrigated: 670

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

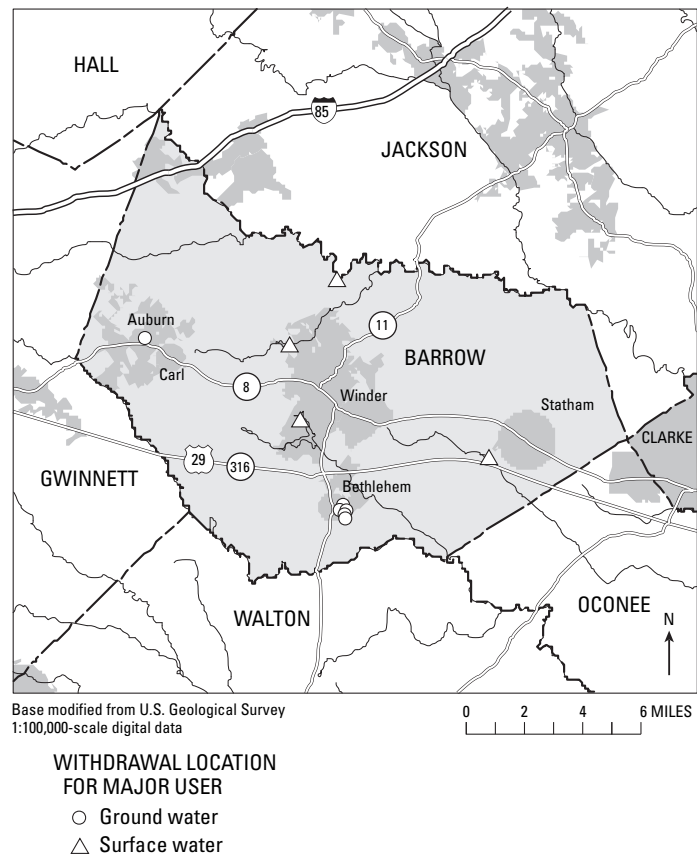
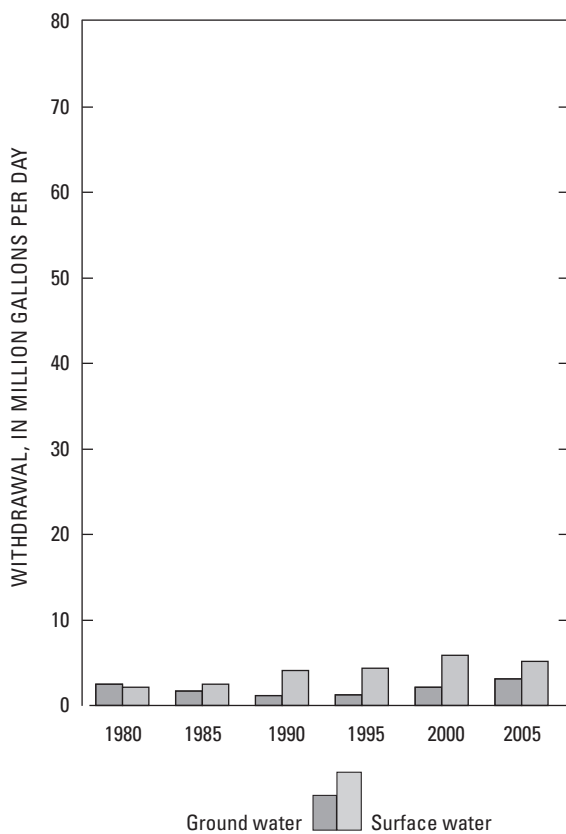
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.57	2.10	0.54	0.29	0.00	0.00	3.50
Surface Water	4.44	0.00	0.00	0.34	0.33	0.00	5.11
TOTALS	5.01	2.10	0.54	0.63	0.33	0.00	8.61

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Auburn	0.52	0.00
City of Statham	0.00	0.19
City of Winder	0.00	4.24

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.27	0.00



BARTOW COUNTY

Population: 89,229

Population served by public supply: 79,290

Acres irrigated: 1,560

Hydroelectric use (Mgal/d): 1,201.30



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

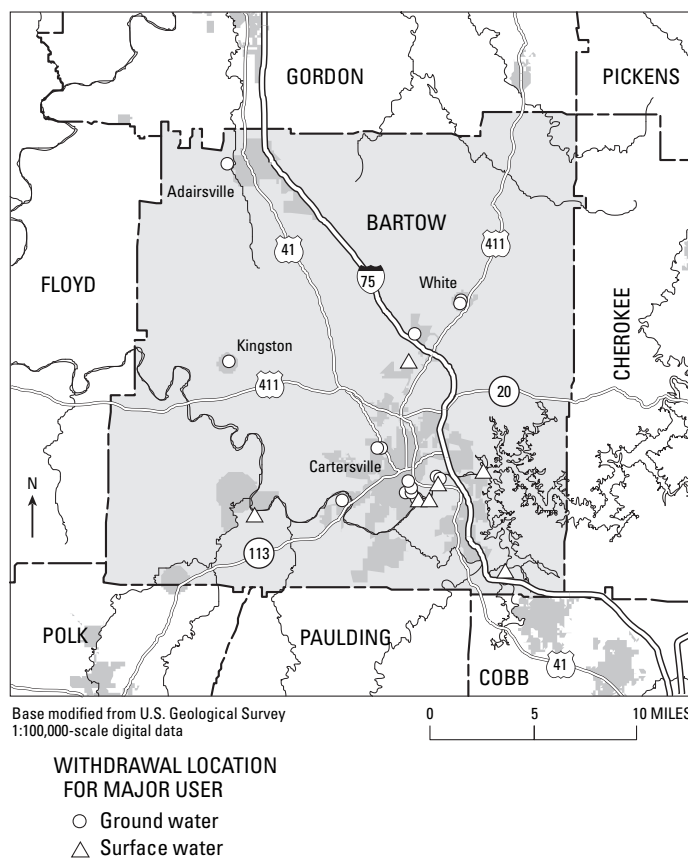
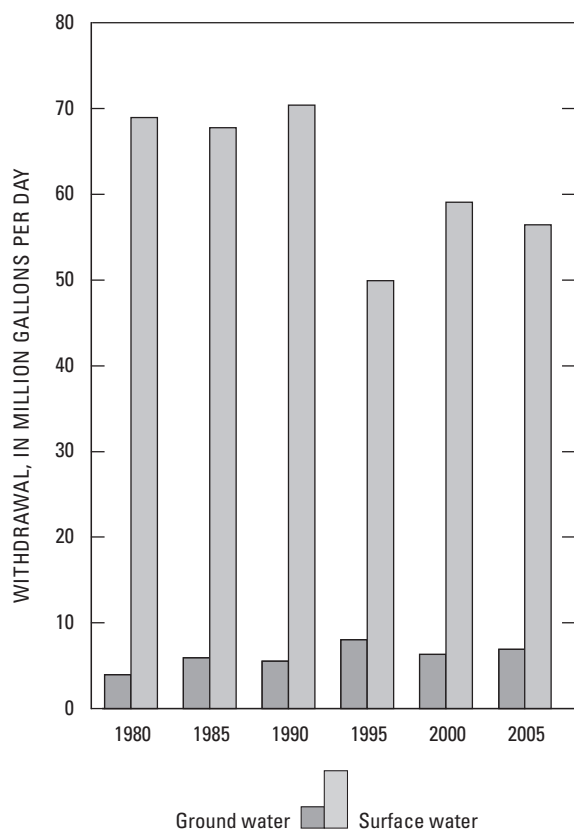
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.31	0.75	2.10	0.00	0.02	0.00	7.18
Surface Water	13.51	0.00	1.83	1.57	0.35	38.92	56.18
TOTALS	17.82	0.75	3.93	1.57	0.37	38.92	63.36

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Adairsville	2.68	0.00
Bartow County Water System	0.54	0.00
City of Cartersville	0.00	13.26
City of Kingston	0.95	0.00
Town of White	0.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
28 - Chemicals	1.24	1.67
33 - Primary metals	0.00	0.16



BEN HILL COUNTY

Population: 17,316

Population served by public supply: 13,670

Acres irrigated: 16,300

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

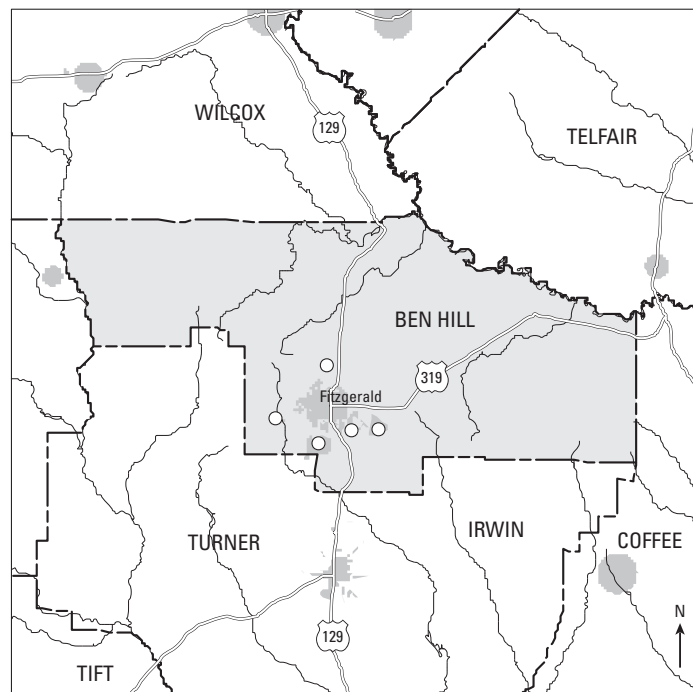
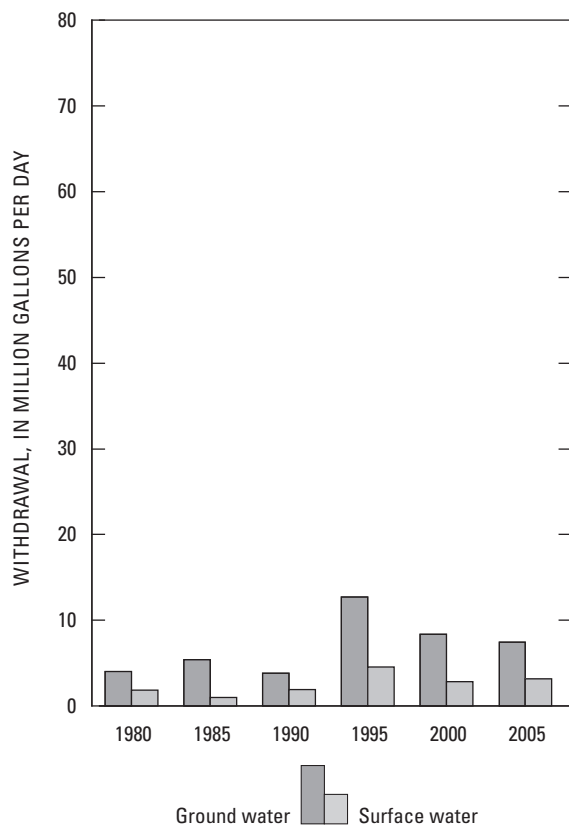
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.06	0.27	0.00	4.13	0.02	0.00	7.48
Surface Water	0.00	0.00	0.00	3.13	0.07	0.00	3.20
TOTALS	3.06	0.27	0.00	7.26	0.09	0.00	10.68

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Fitzgerald Water/Light	3.06	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

BERRIEN COUNTY

Population: 16,708

Population served by public supply: 7,540

Acres irrigated: 36,310

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

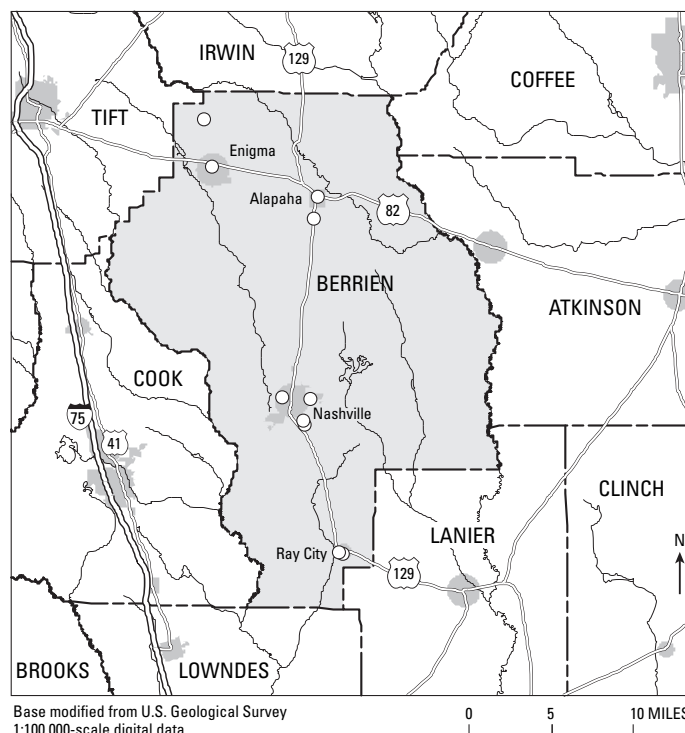
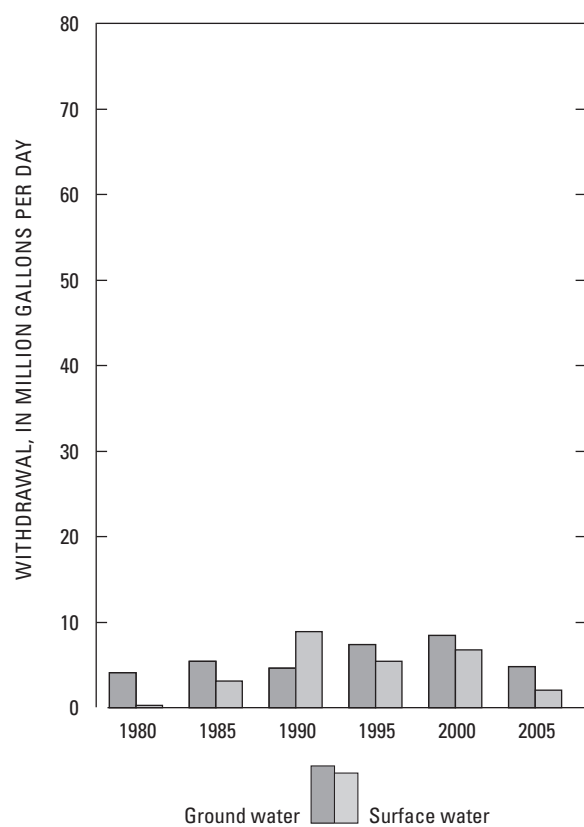
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.99	0.69	0.08	2.07	0.97	0.00	4.80
Surface Water	0.00	0.00	0.00	1.92	0.14	0.00	2.06
TOTALS	0.99	0.69	0.08	3.99	1.11	0.00	6.86

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Alapaha	0.06	0.00
Town of Enigma	0.08	0.00
City of Nashville	0.78	0.00
City of Ray City	0.06	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.04	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

BIBB COUNTY

Population: 154,918

Population served by public supply: 130,280

Acres irrigated: 790

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

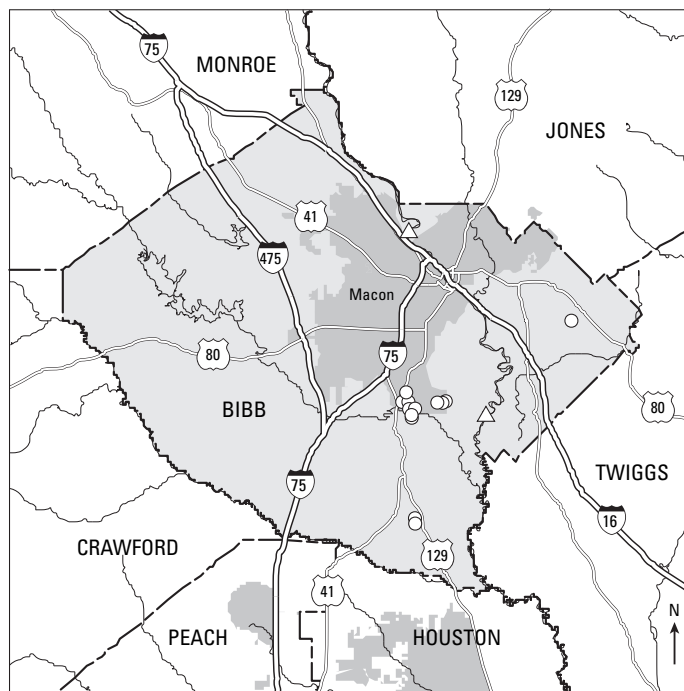
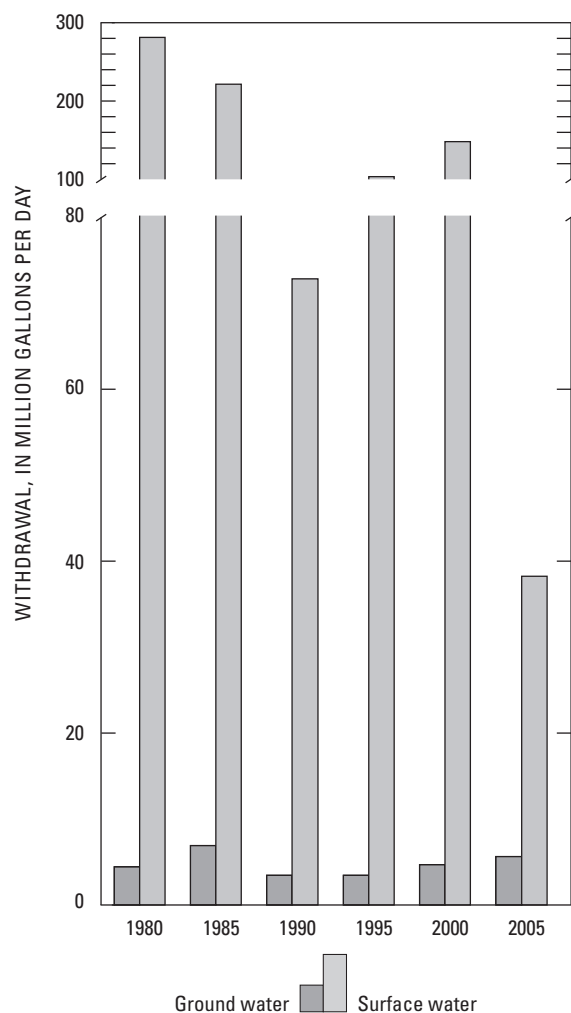
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.14	1.85	3.12	1.06	0.01	0.00	6.18
Surface Water	25.39 ^a	0.00	12.45	0.00	0.05	0.00	37.89
TOTALS	25.53	1.85	15.57	1.06	0.06	0.00	44.07

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Macon Water Authority	0.00	25.39 ^a

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.64	12.43
32 - Stone, clay	1.17	0

^a Water used in Bibb County but withdrawn from Jones County.Base modified from U.S. Geological Survey
1:100,000-scale digital data**WITHDRAWAL LOCATION
FOR MAJOR USER**

- Ground water
- △ Surface water

BLECKLEY COUNTY

Population: 12,141

Population served by public supply: 5,380

Acres irrigated: 12,850

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

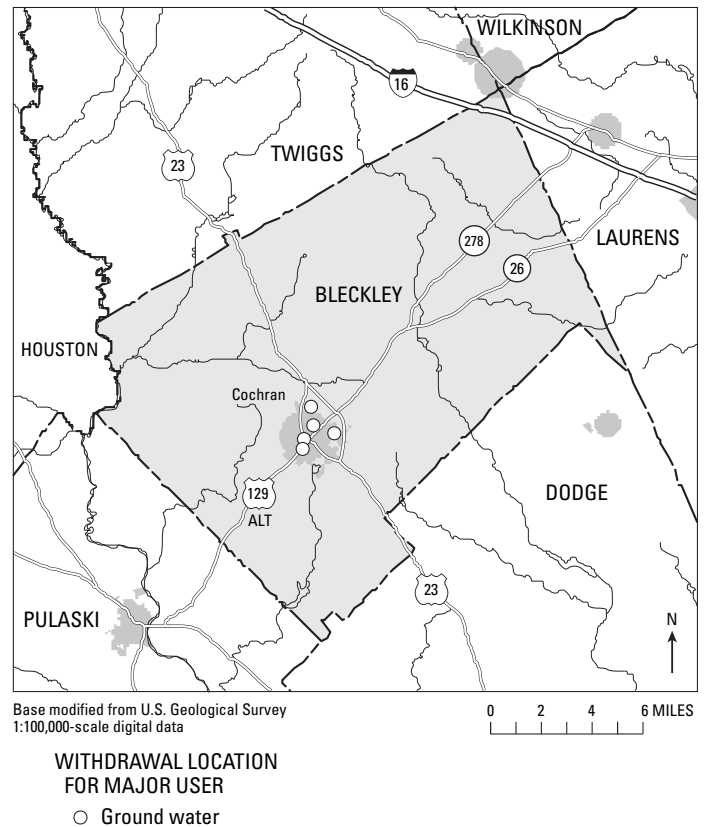
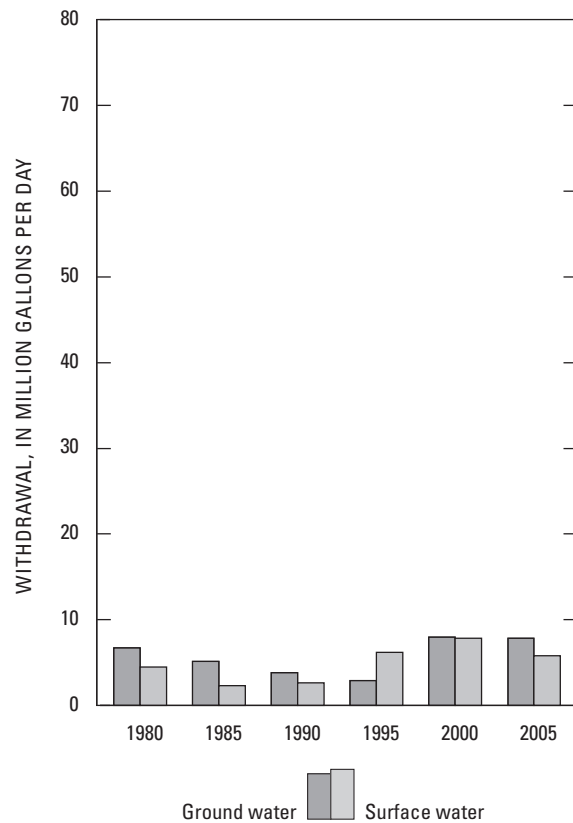
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.21	0.58	0.00	7.04	0.01	0.00	7.84
Surface Water	0.00	0.00	0.00	5.74	0.04	0.00	5.78
TOTALS	0.21	0.58	0.00	12.78	0.05	0.00	13.62

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cochran	0.21	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



BRANTLEY COUNTY

Population: 15,491

Population served by public supply: 2,160

Acres irrigated: 300

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

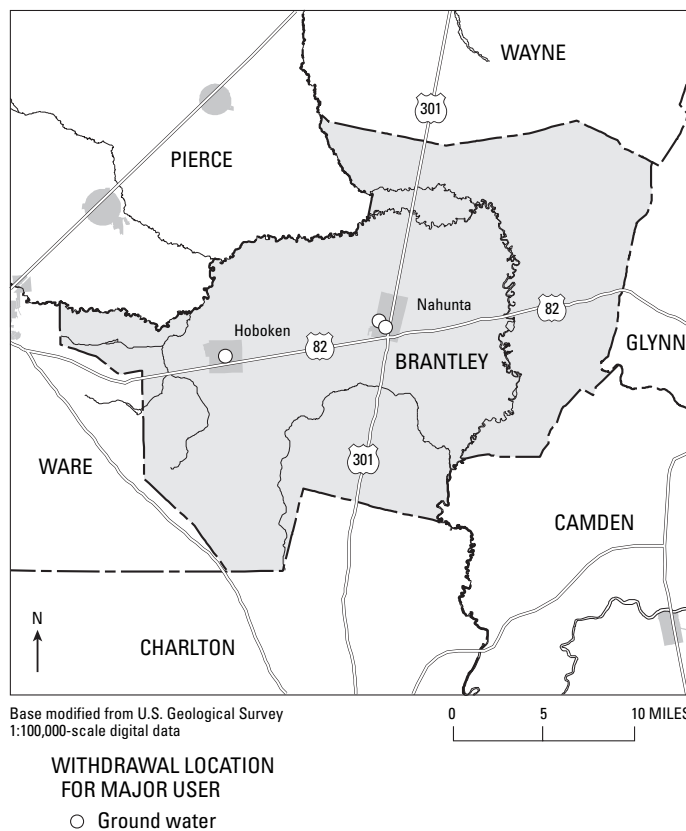
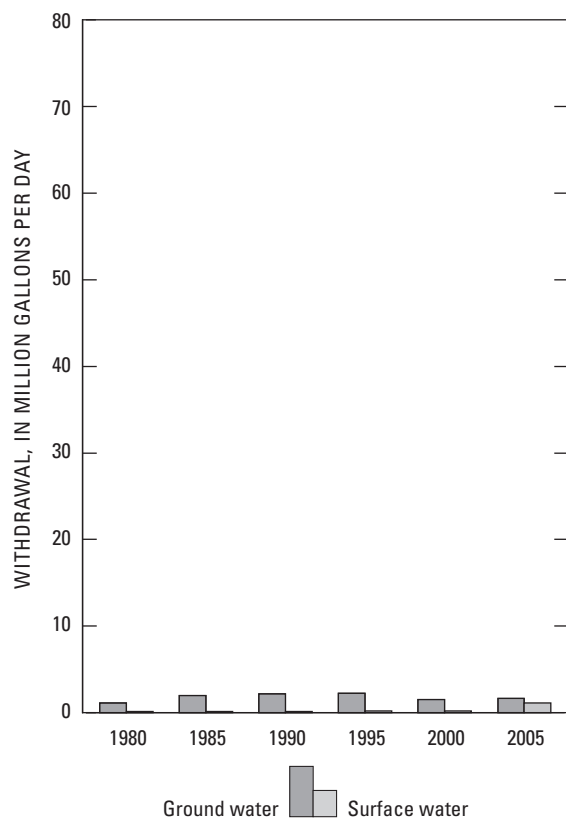
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.20	1.00	0.42	0.05	0.01	0.00	1.68
Surface Water	0.00	0.00	1.02	0.06	0.07	0.00	1.15
TOTALS	0.20	1.00	1.44	0.11	0.08	0.00	2.83

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hoboken	0.04	0.00
City of Nahunta	0.12	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



BROOKS COUNTY

Population: 16,327

Population served by public supply: 6,990

Acres irrigated: 8,330

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

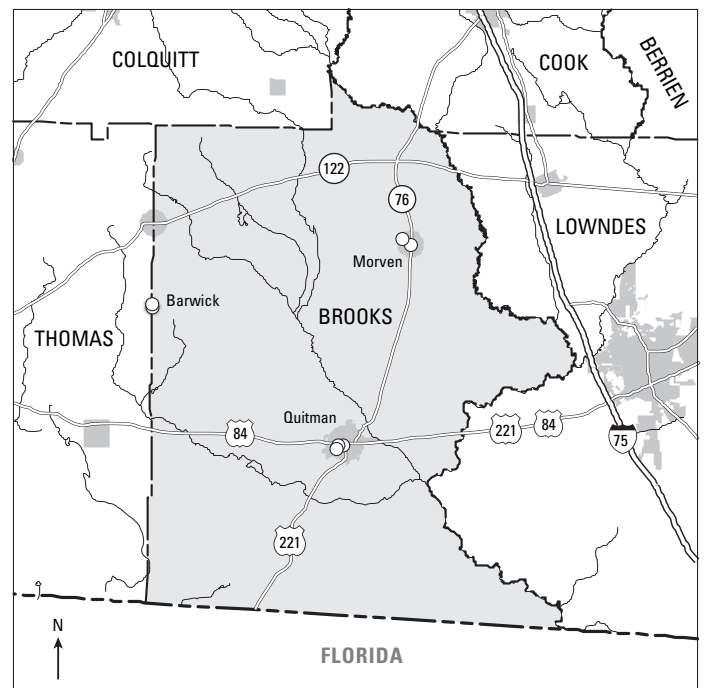
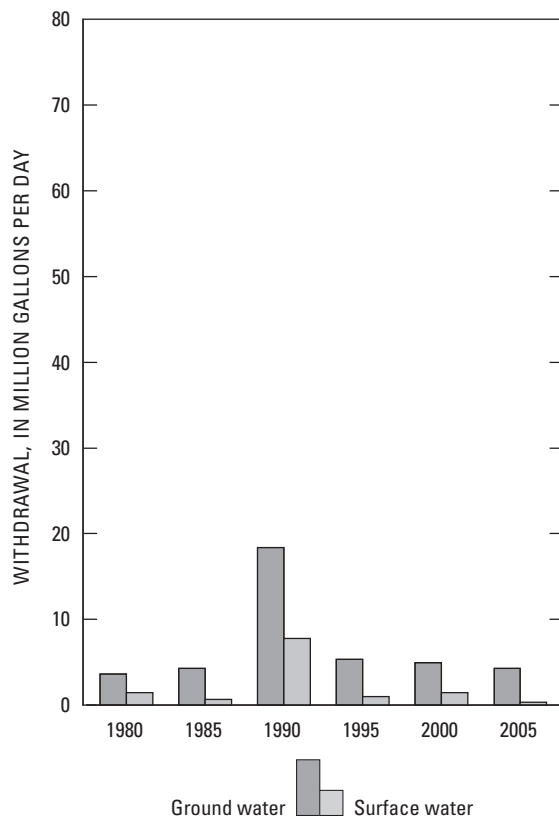
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.96	0.83	0.13	2.29	0.05	0.00	4.26
Surface Water	0.00	0.00	0.00	0.11	0.22	0.00	0.33
TOTALS	0.96	0.83	0.13	2.40	0.27	0.00	4.59

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Barwick	0.03	0.00
City of Morven	0.05	0.00
City of Quitman	0.78	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

BRYAN COUNTY

Population: 28,549

Population served by public supply: 18,280

Acres irrigated: 400

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

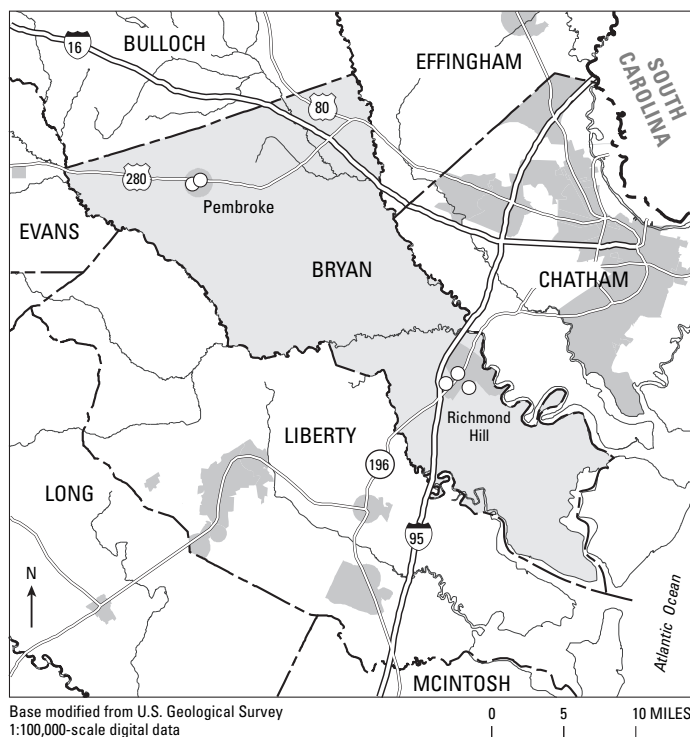
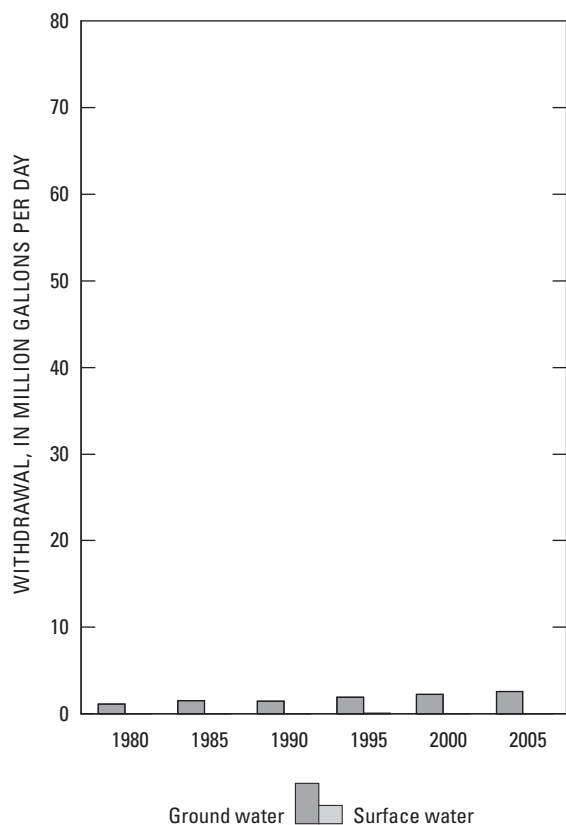
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.73	0.82	0.00	0.59	0.00	0.00	3.14
Surface Water	0.00	0.00	0.00	0.00	0.01	0.00	0.01
TOTALS	1.73	0.82	0.00	0.59	0.01	0.00	3.15

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Pembroke	0.23	0.00
City of Richmond Hill	1.06	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

- Ground water

BULLOCH COUNTY

Population: 61,454

Population served by public supply: 48,470

Acres irrigated: 22,270

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

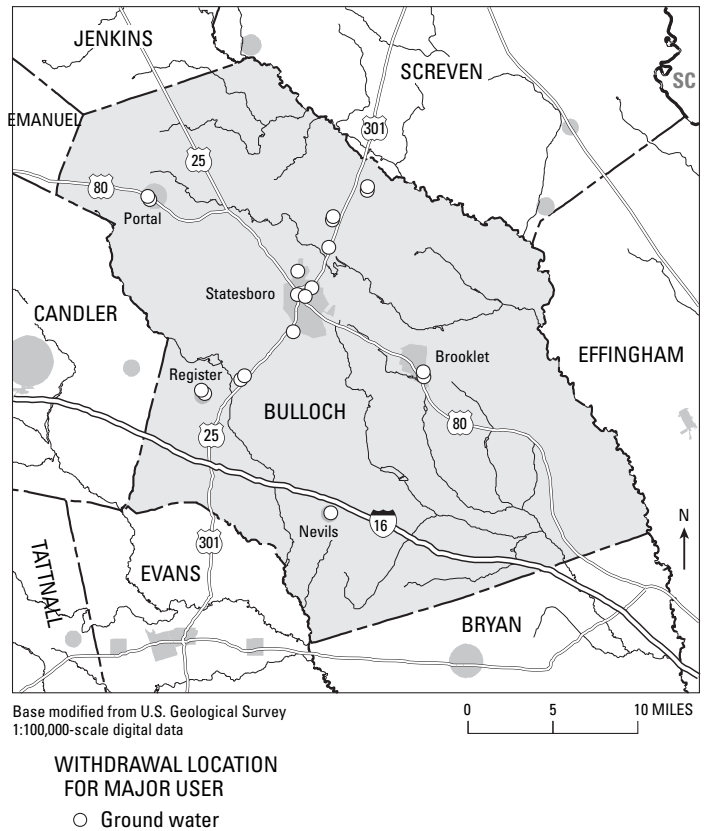
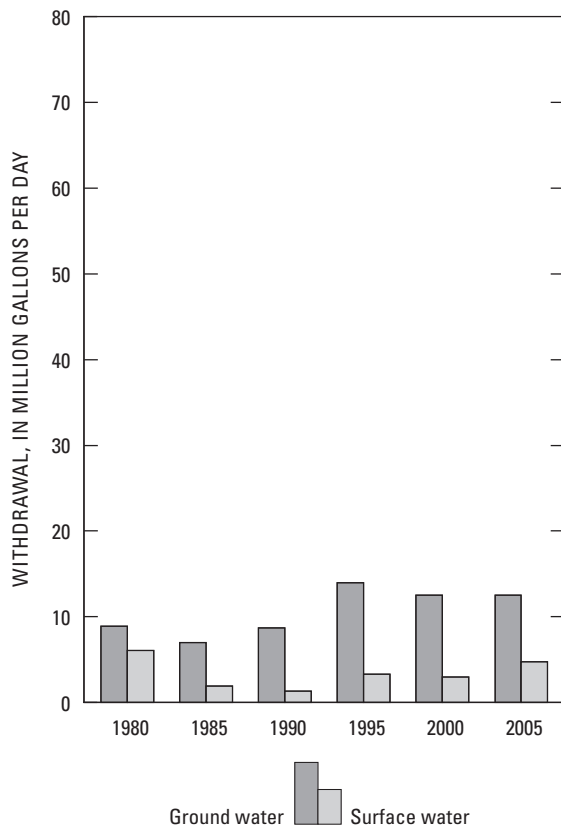
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.01	1.37	0.03	7.07	0.07	0.00	12.55
Surface Water	0.00	0.00	0.00	4.58	0.16	0.00	4.74
TOTALS	4.01	1.37	0.03	11.65	0.23	0.00	17.29

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Brooklet	0.12	0.00
Nevils Water Association	0.04	0.00
Town of Portal	0.07	0.00
Register Water System	0.02	0.00
City of Statesboro	2.93	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
33 - Primary metals	0.03	0.00



BURKE COUNTY

Population: 23,299

Population served by public supply: 8,390

Acres irrigated: 28,300

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

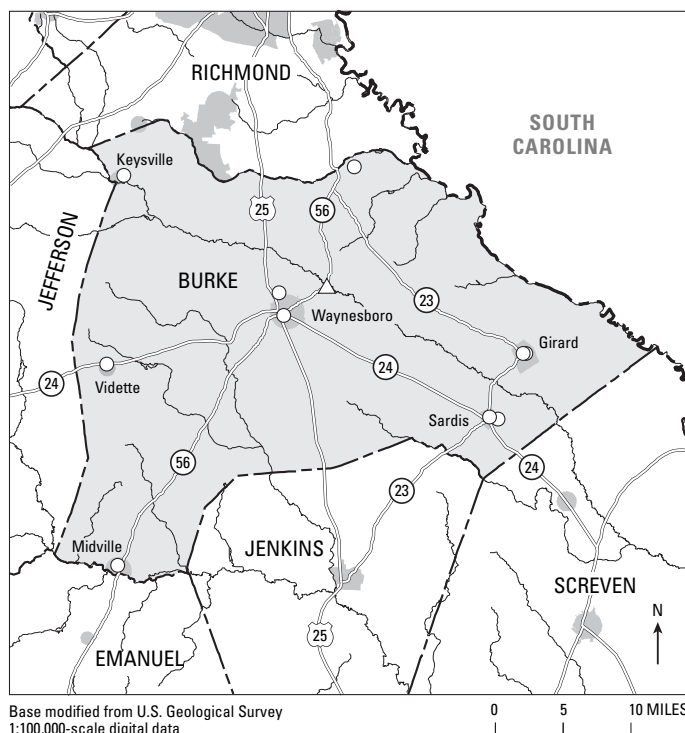
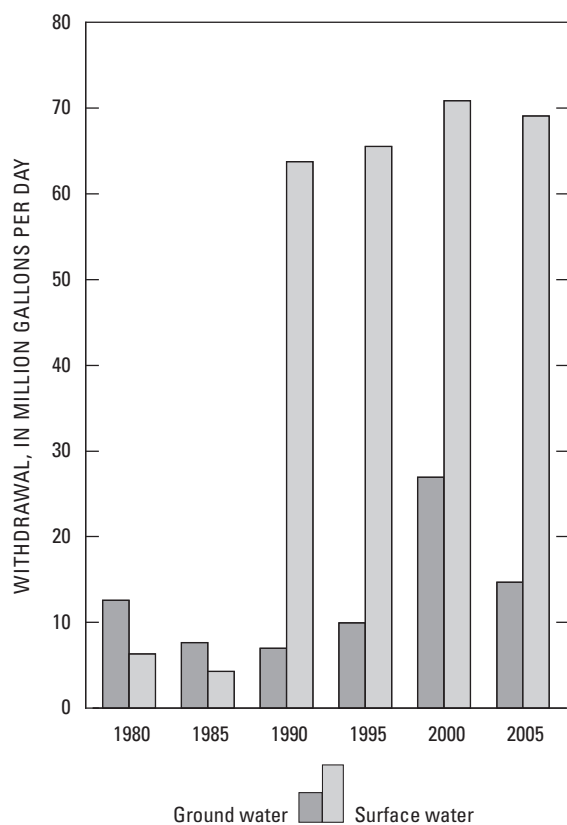
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.97	1.12	0.05	11.66	0.05	0.85	14.70
Surface Water	0.14	0.00	0.00	4.28	0.19	64.51	69.12
TOTALS	1.11	1.12	0.05	15.94	0.24	65.36	83.82

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Girard	0.02	0.00
City of Midville	0.06	0.00
Town of Sardis	0.07	0.00
City of Vidette	0.01	0.00
City of Waynesboro	0.79	0.14

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.05	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

BUTTS COUNTY

Population: 21,045

Population served by public supply: 16,840

Acres irrigated: 210

Hydroelectric use (Mgal/d): 1,070.95



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

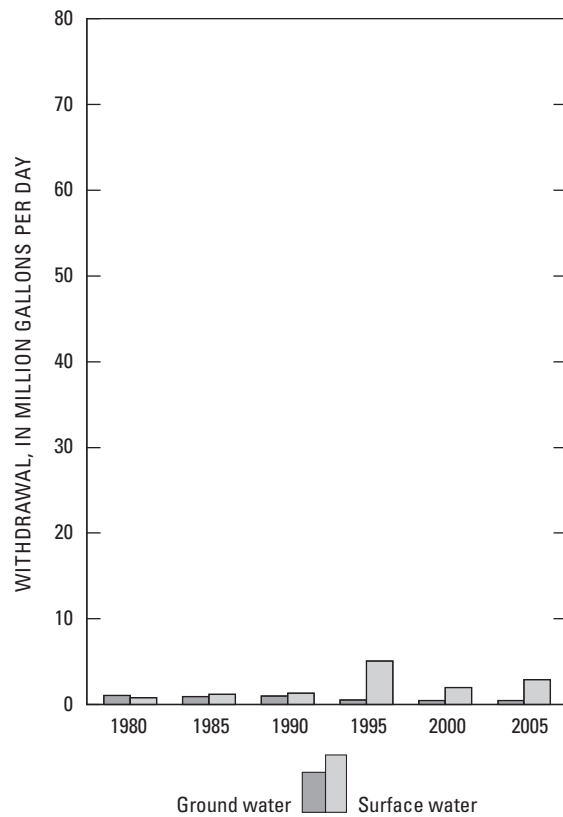
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.14	0.32	0.00	0.00	0.00	0.00	0.46
Surface Water	2.79	0.00	0.00	0.21	0.04	0.00	3.04
TOTALS	2.93	0.32	0.00	0.21	0.04	0.00	3.50

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Butts County Water & Sewer Authority	0.00	2.50
City of Jackson	0.09	0.00
City of Flovilla	0.00	0.29
Town of Jenkinsburg	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

CALHOUN COUNTY

Population: 5,972

Population served by public supply: 5,170

Acres irrigated: 48,880

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

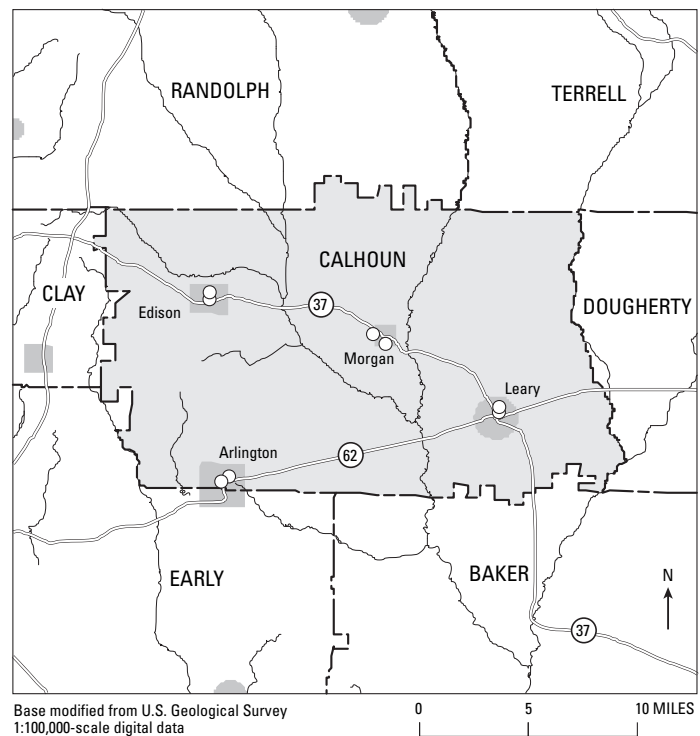
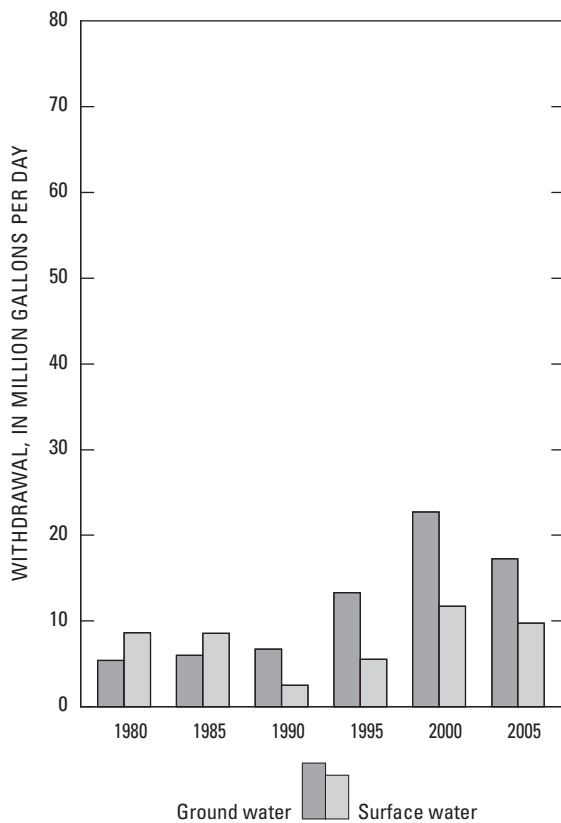
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.78	0.06	0.00	16.39	0.02	0.00	17.25
Surface Water	0.00	0.00	0.00	9.72	0.06	0.00	9.78
TOTALS	0.78	0.06	0.00	26.11	0.08	0.00	27.03

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Arlington	0.29	0.00
City of Edison	0.18	0.00
City of Leary	0.08	0.00
City of Morgan	0.23	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

CAMDEN COUNTY

Population: 45,759

Population served by public supply: 31,170

Acres irrigated: 690

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

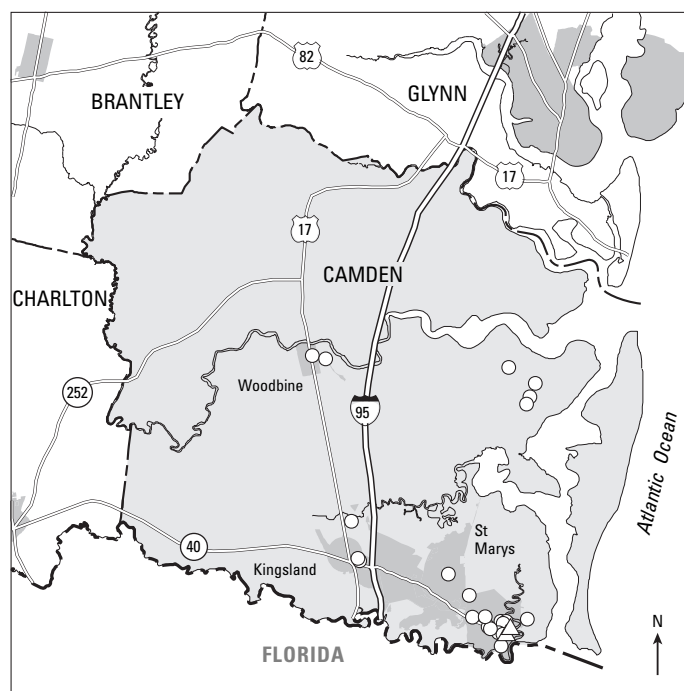
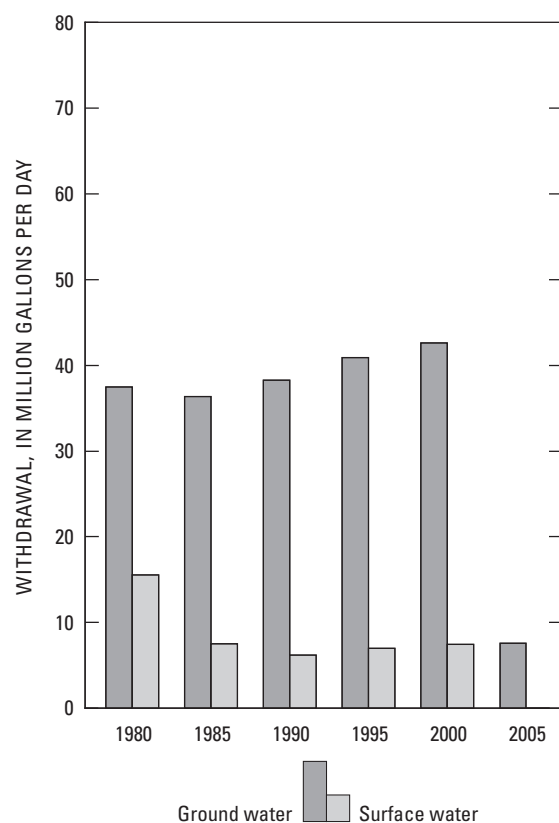
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.06	2.01	0.07	1.38	0.05	0.00	7.57
Surface Water	0.00	0.00	0.00	0.00	0.01	0.00	0.01
TOTALS	4.06	2.01	0.07	1.38	0.06	0.00	7.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Kingsland	1.45	0.00
City of St. Marys	1.48	0.00
City of Woodbine	0.14	0.00
USN Base Support	0.96	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.01	0.00
28 - Chemicals	0.06	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

0 5 10 MILES

CANDLER COUNTY

Population: 10,321

Population served by public supply: 4,380

Acres irrigated: 16,900

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

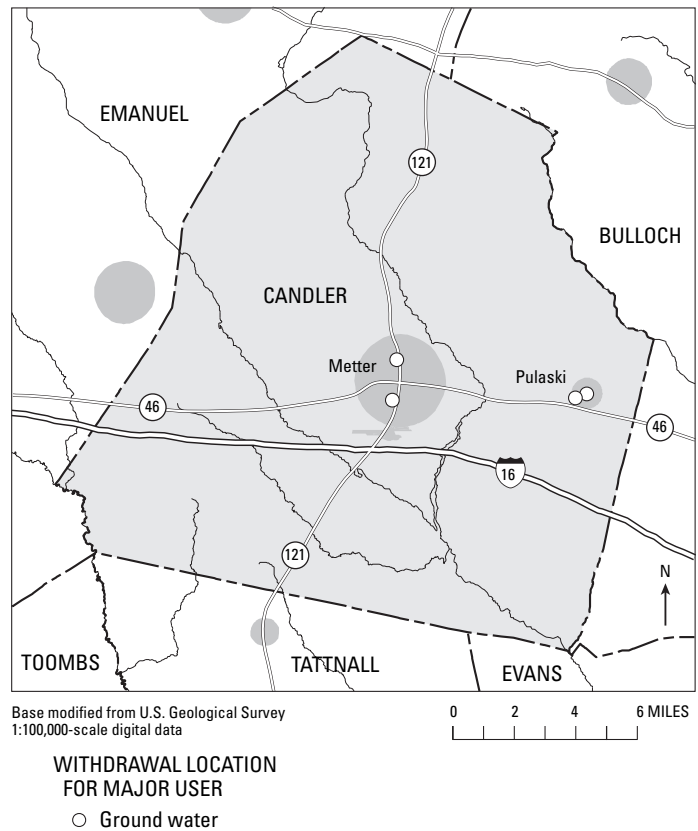
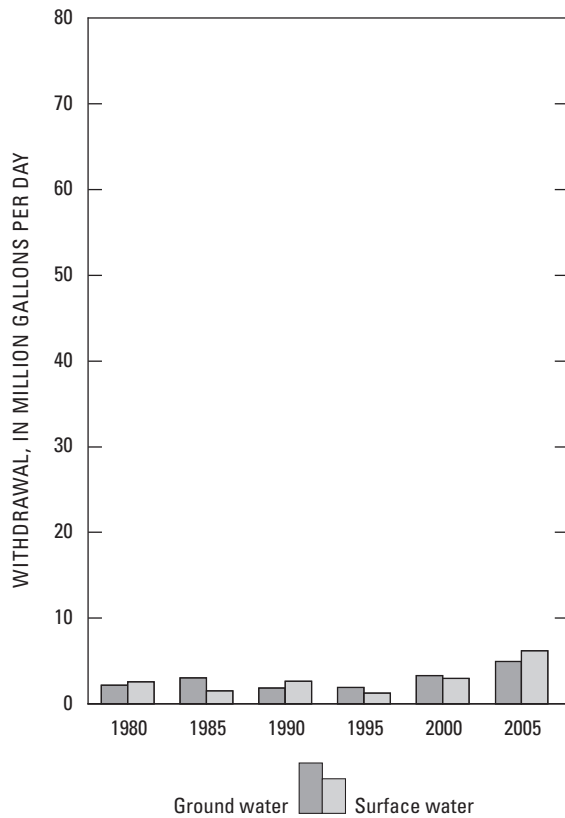
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.46	0.45	0.00	4.03	0.02	0.00	4.96
Surface Water	0.00	0.00	0.00	5.98	0.19	0.00	6.17
TOTALS	0.46	0.45	0.00	10.01	0.21	0.00	11.13

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Metter	0.44	0.00
Town of Pulaski	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



CARROLL COUNTY

Population: 105,453

Population served by public supply: 82,870

Acres irrigated: 440

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

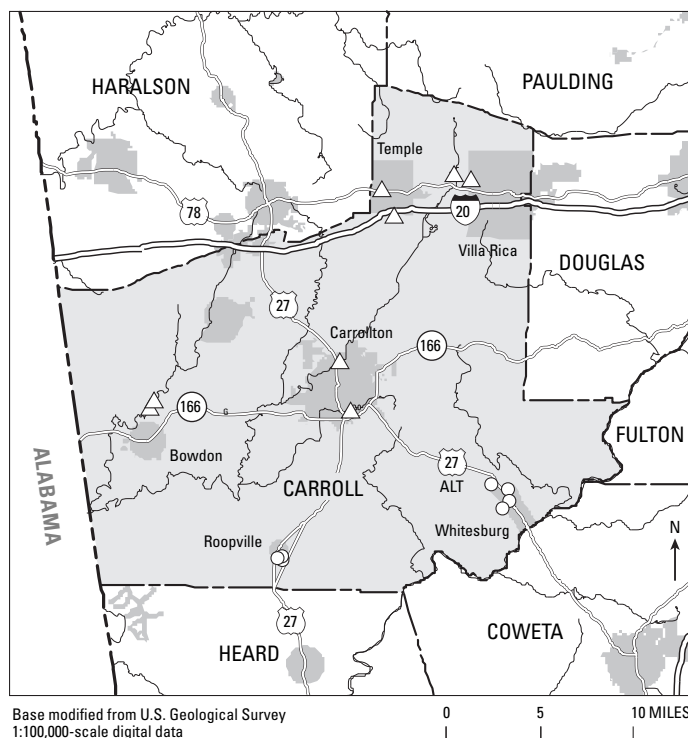
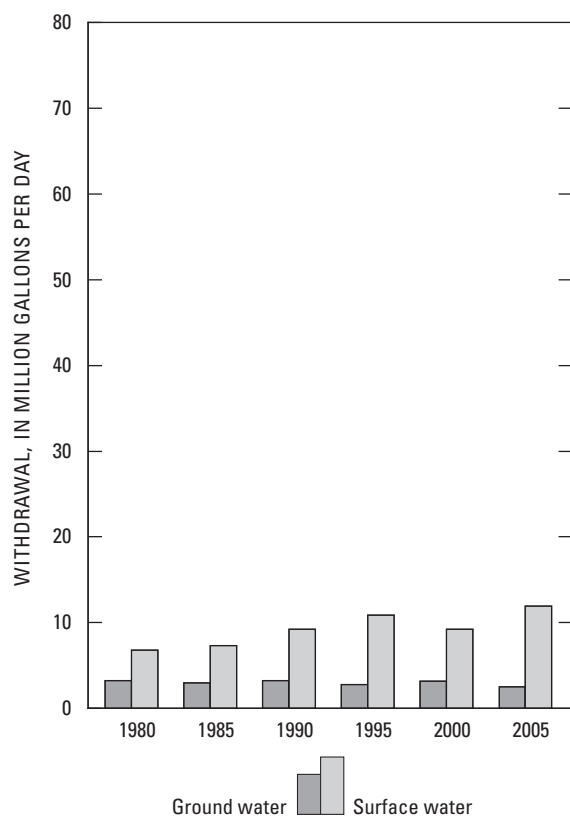
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.63	1.69	0.25	0.00	0.02	0.00	2.59
Surface Water	11.05	0.00	0.09	0.00	0.69	0.00	11.83
TOTALS	11.68	1.69	0.34	0.00	0.71	0.00	14.42

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Bowdon	0.00	0.75
City of Carrollton	0.00	5.37
City of Mount Zion	0.08	0.00
Town of Roopville	0.02	0.00
City of Temple	0.00	0.26
City of Villa Rica	0.05	0.58
Town of Whitesburg	0.07	0.00
Carroll County Water System	0.40	4.08

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
33 - Primary metals	0.00	0.09



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

CATOOSA COUNTY

Population: 60,813

Population served by public supply: 51,340

Acres irrigated: 690

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

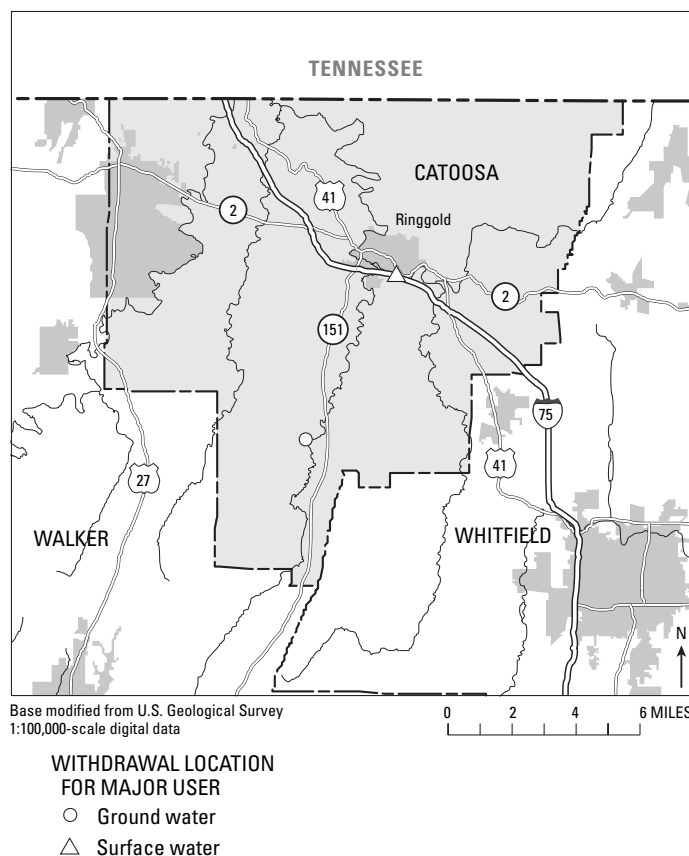
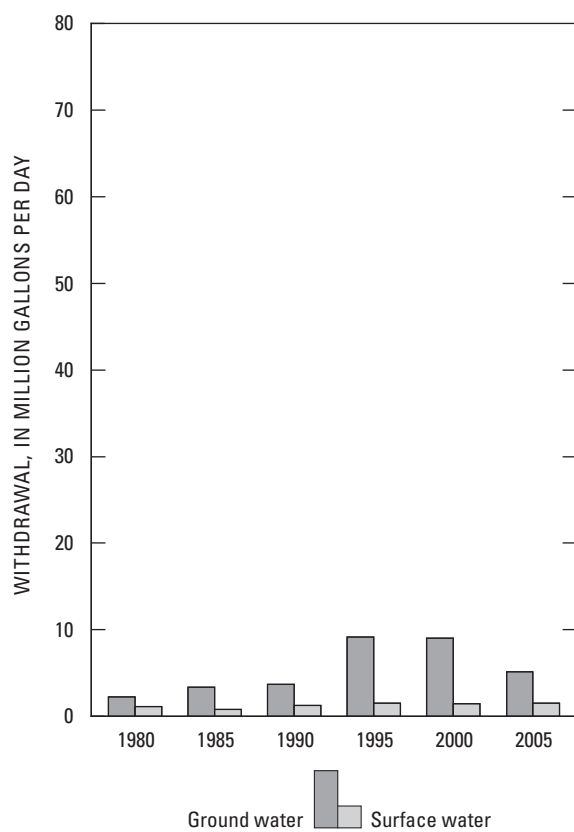
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.12	0.71	0.05	0.26	0.02	0.00	5.16
Surface Water	0.56	0.00	0.00	0.79	0.18	0.00	1.53
TOTALS	4.68	0.71	0.05	1.05	0.20	0.00	6.69

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Catoosa County Water System	4.12	0.00
City of Ringgold	0.00	0.56

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



CHARLTON COUNTY

Population: 10,790

Population served by public supply: 4,460

Acres irrigated: 120

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

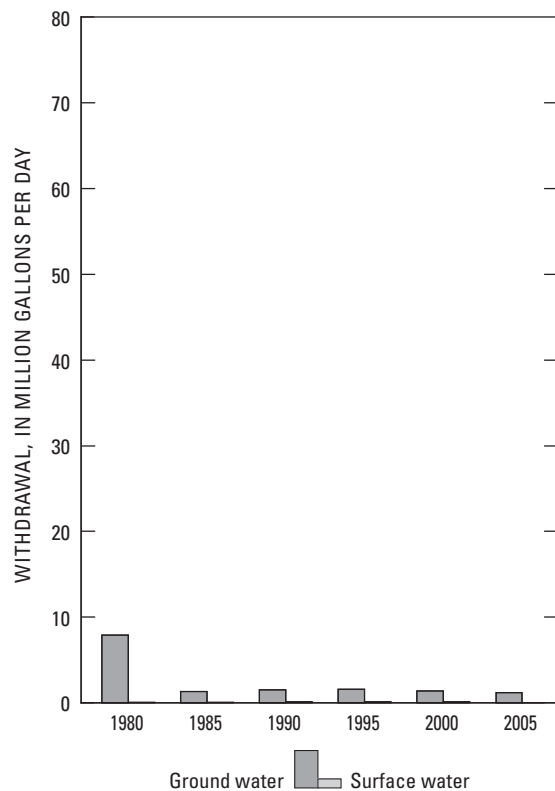
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.73	0.48	0.00	0.00	0.00	0.00	1.21
Surface Water	0.00	0.00	0.00	0.01	0.02	0.00	0.03
TOTALS	0.73	0.48	0.00	0.01	0.02	0.00	1.24

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Folkston	0.72	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

CHATHAM COUNTY

Population: 238,410

Population served by public supply: 208,610

Acres irrigated: 1,580

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	33.52	5.06	21.44	2.35	0.00	2.60	64.97
Surface Water	0.00	0.00	20.54	0.00	0.01	158.58	179.13
TOTALS	33.52	5.06	41.98	2.35*	0.01	161.18	244.10

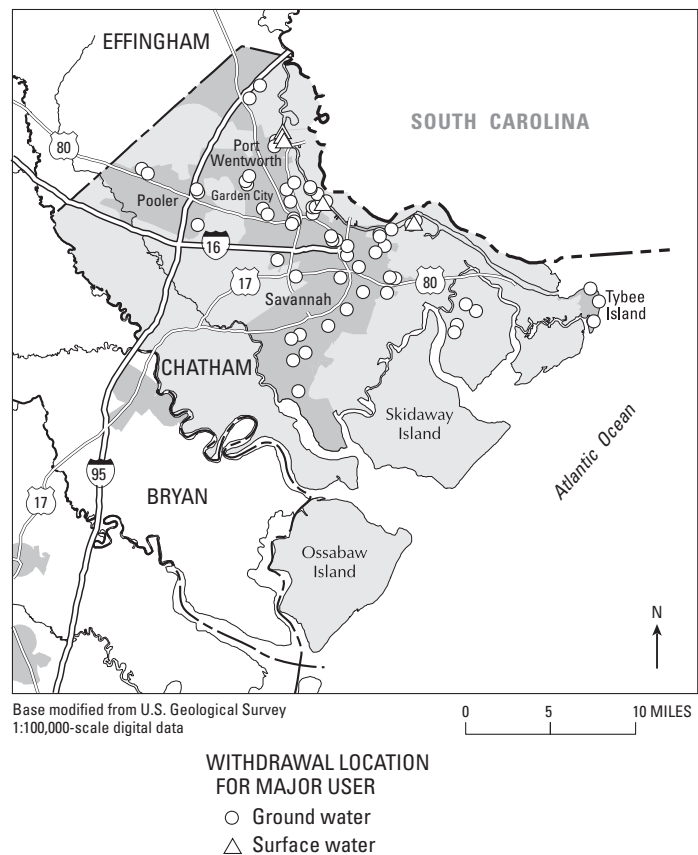
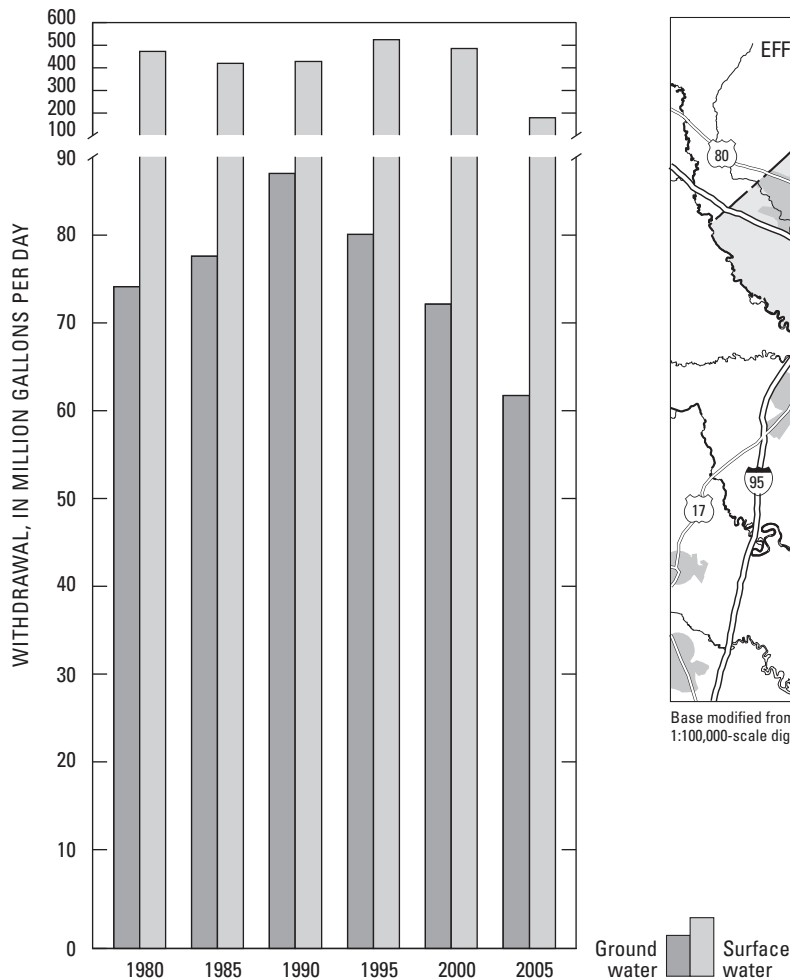
Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Garden City	1.16	0.00
Hunter Army Airfield	0.78	0.00
Town of Pooler	0.63	0.00
City of Port Wentworth	0.29	0.00
City of Savannah	23.98	0.00
Skidaway Island Utilities	1.60	0.00
City of Tybee Island	0.86	0.00
City of Savannah–Glen Robin	0.64	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.44	0.00
26 - Paper	16.53	14.09
28 - Chemicals	3.95	6.46
29 - Petroleum	0.37	0.00

*Some irrigation withdrawals included in commercial category



CHATTAHOOCHEE COUNTY

Population: 14,679

Population served by public supply: 14,390

Acres irrigated: 100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

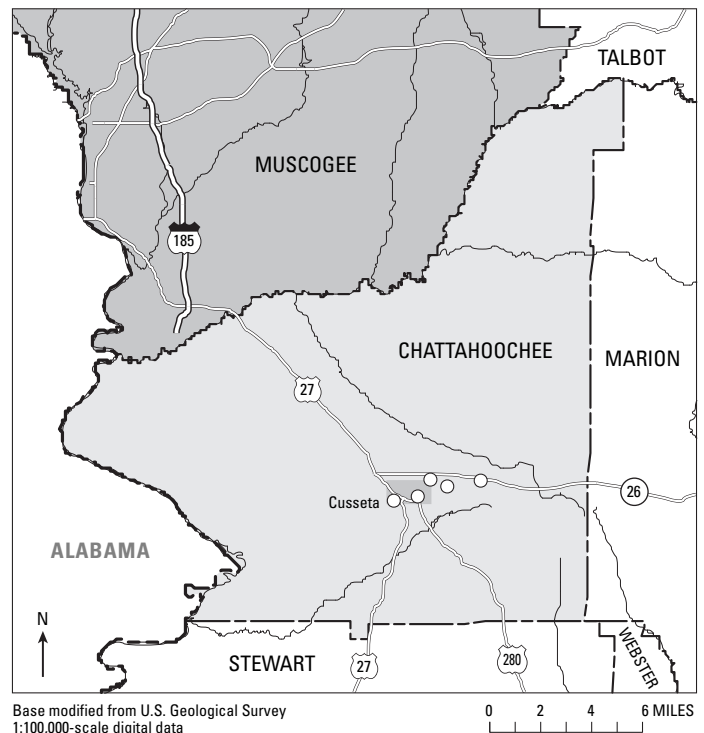
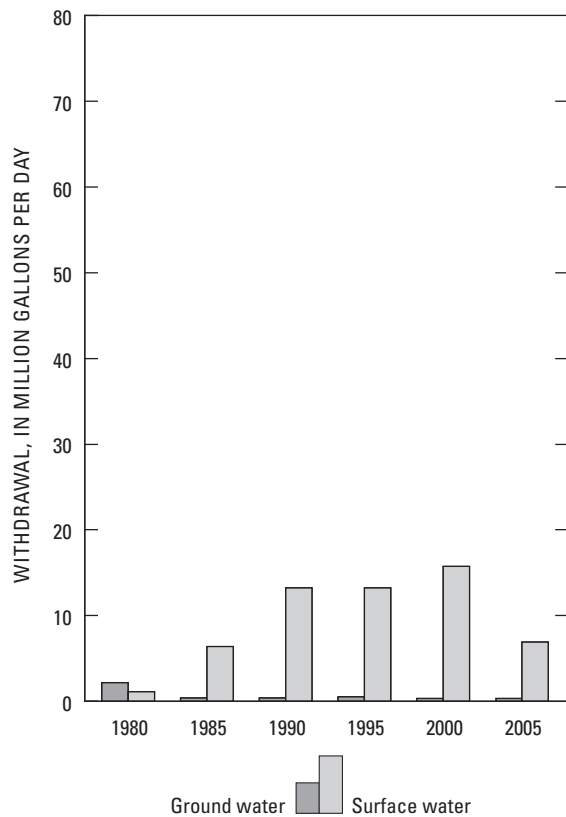
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.34	0.02	0.00	0.15	0.00	0.00	0.51
Surface Water	0.69	6.22	0.00	0.00	0.01	0.00	6.92
TOTALS	1.03	6.24	0.00	0.15	0.01	0.00	7.43

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Chattahoocchee County Water System	0.34	0.00
City of Cusseta	0.00	0.69

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

CHATTOOGA COUNTY

Population: 26,570

Population served by public supply: 22,720

Acres irrigated: 50

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

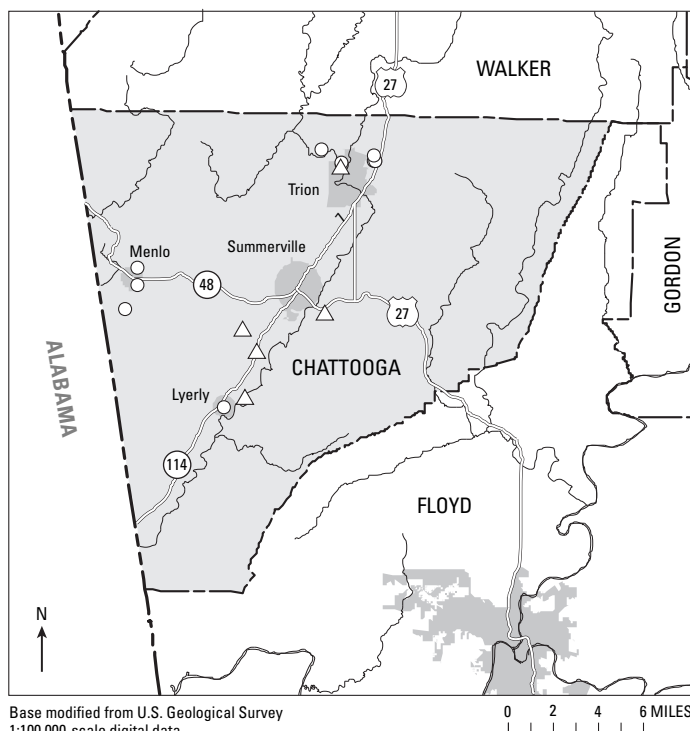
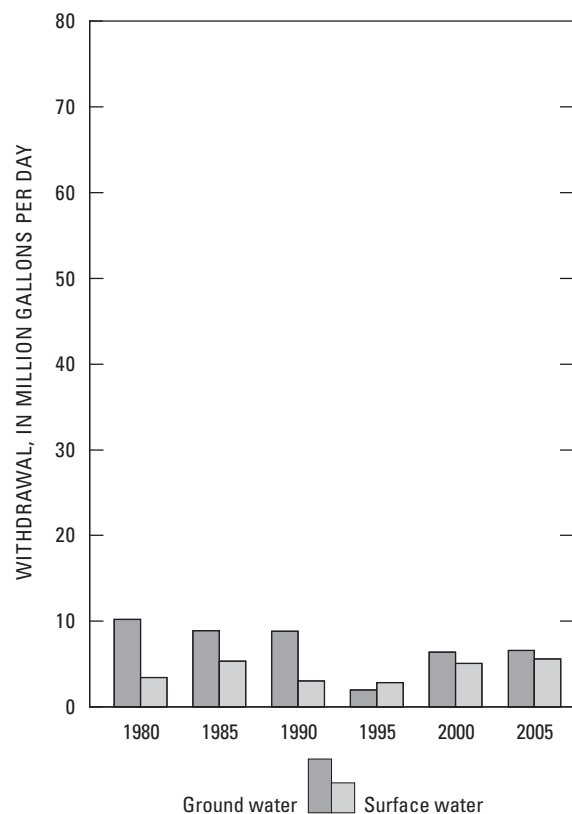
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.31	0.29	4.58	0.00	0.39	0.00	6.57
Surface Water	2.05	0.00	2.74	0.07	0.85	0.00	5.71
TOTALS	3.36	0.29	7.32	0.07	1.24	0.00	12.28

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Chattooga County Water System	0.51	0.00
Town of Lyerly	0.15	0.00
Town of Menlo	0.05	0.00
City of Summerville	0.00	2.05
City of Summerville Lowe Spring	0.45	0.00
Town of Trion	0.15	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	4.58	2.74



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

CHEROKEE COUNTY

Population: 184,211

Population served by public supply: 115,320

Acres irrigated: 1,330

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

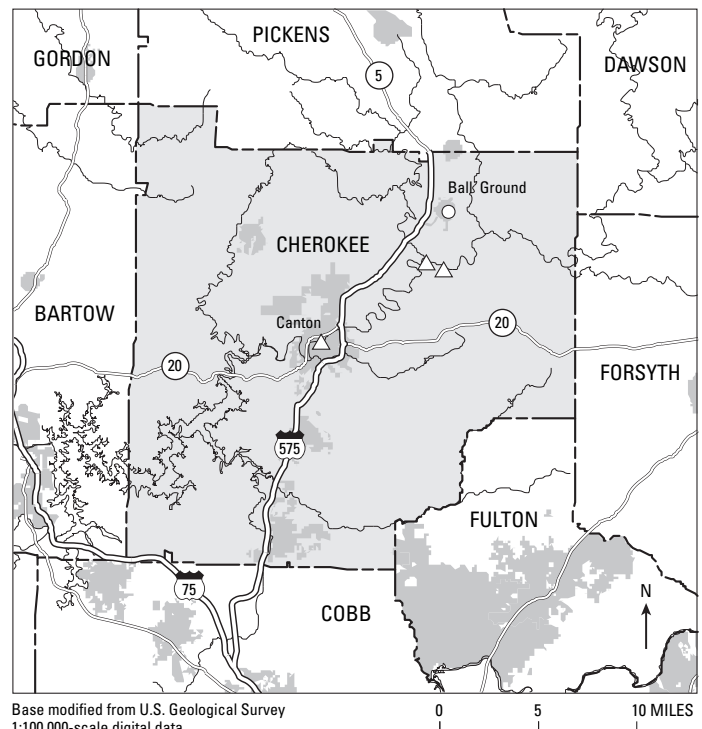
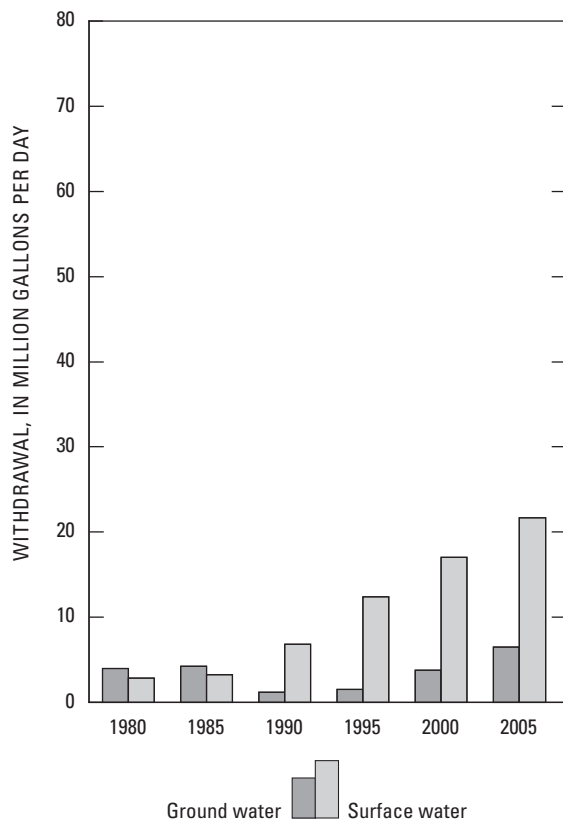
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.30	5.18	0.57	0.60	0.02	0.00	6.67
Surface Water	18.64	0.00	1.95	1.78	0.31	0.00	22.68
TOTALS	18.94	5.18	2.52	2.38	0.33	0.00	29.35

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Ball Ground	0.14	0.00
City of Canton	0.00	2.83
Cherokee County Water System	0.00	15.81

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.01	1.94



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

CLARKE COUNTY

Population: 104,439

Population served by public supply: 104,220

Acres irrigated: 760

Hydroelectric use (Mgal/d): 77.67

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

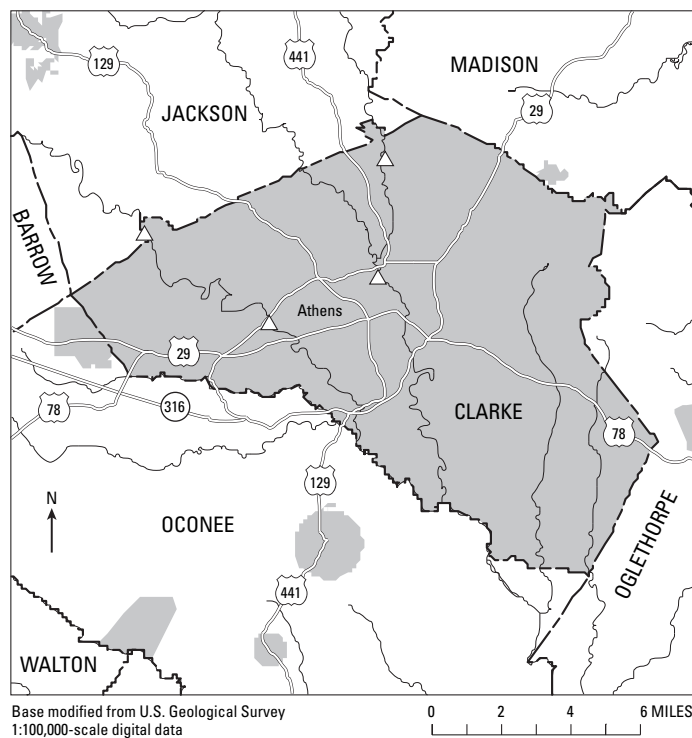
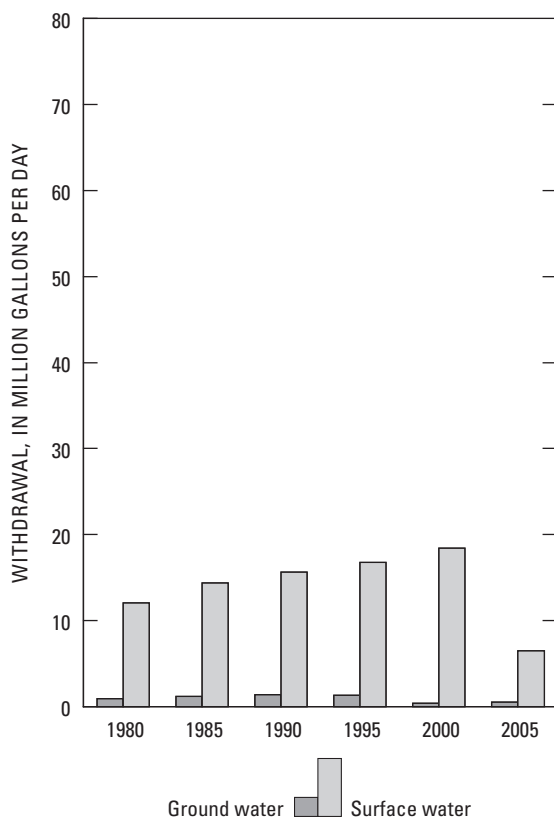
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.24	0.02	0.00	0.24	0.00	0.00	0.50
Surface Water	6.29	0.00	0.00	0.69	0.09	0.00	7.07
TOTALS	6.53	0.02	0.00	0.93	0.09	0.00	7.57

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Athens–Clarke County Public Utility	0.00	6.29

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

△ Surface water

CLAY COUNTY

Population: 3,242

Population served by public supply: 1,840

Acres irrigated: 420

Hydroelectric use (Mgal/d): 5,439.48



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

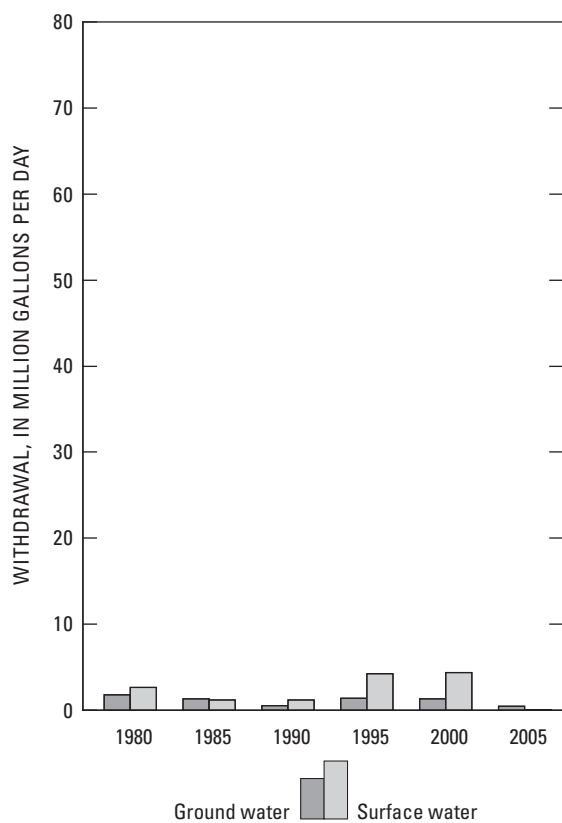
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.26	0.11	0.00	0.20	0.01	0.00	0.58
Surface Water	0.00	0.00	0.00	0.06	0.02	0.00	0.08
TOTALS	0.26	0.11	0.00	0.26	0.03	0.00	0.66

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Bluffton	0.01	0.00
City of Fort Gaines	0.24	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

CLAYTON COUNTY

Population: 267,966

Population served by public supply: 258,980

Acres irrigated: 590

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

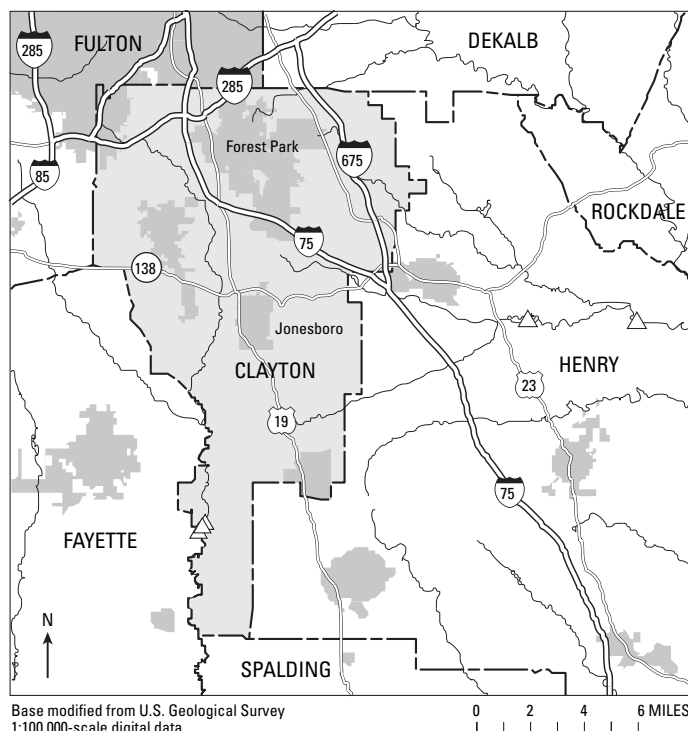
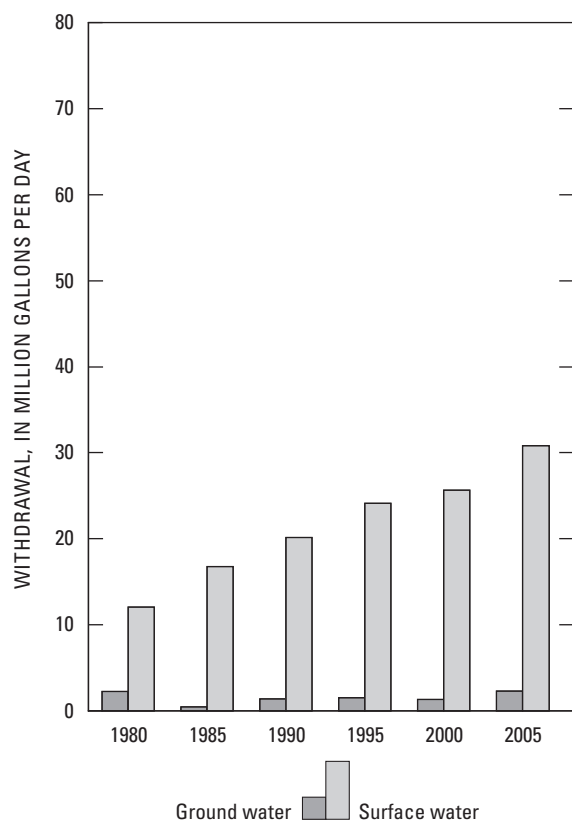
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.02	1.94	0.37	0.00	0.00	0.00	2.33
Surface Water	29.94	0.00	0.01	0.88	0.01	0.00	30.84
TOTALS	29.96	1.94	0.38	0.88	0.01	0.00	33.17

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Clayton County Water Authority—Shoal Creek	0.01	13.66
Clayton County Water Authority (water source located in Henry County)	0.00	16.28

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

△ Surface water

CLINCH COUNTY

Population: 6,996

Population served by public supply: 3,310

Acres irrigated: 980

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

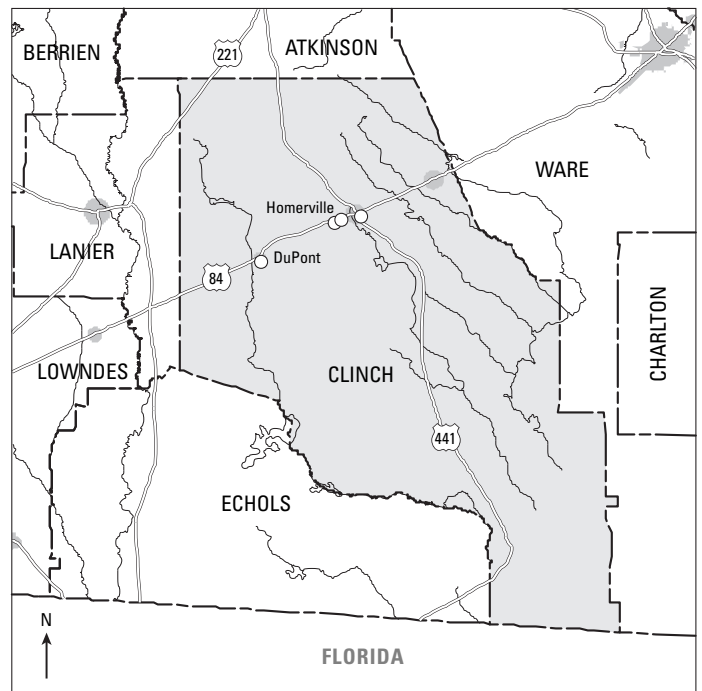
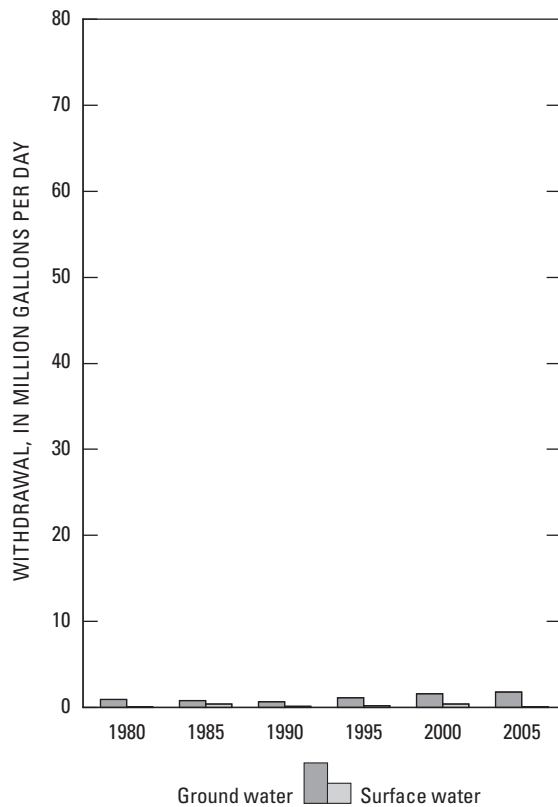
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.49	0.28	0.04	0.25	0.74	0.00	1.80
Surface Water	0.00	0.00	0.00	0.06	0.02	0.00	0.08
TOTALS	0.49	0.28	0.04	0.31	0.76	0.00	1.88

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of DuPont	0.01	0.00
City of Homerville	0.48	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

COBB COUNTY

Population: 663,818

Population served by public supply: 650,540

Acres irrigated: 2,100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

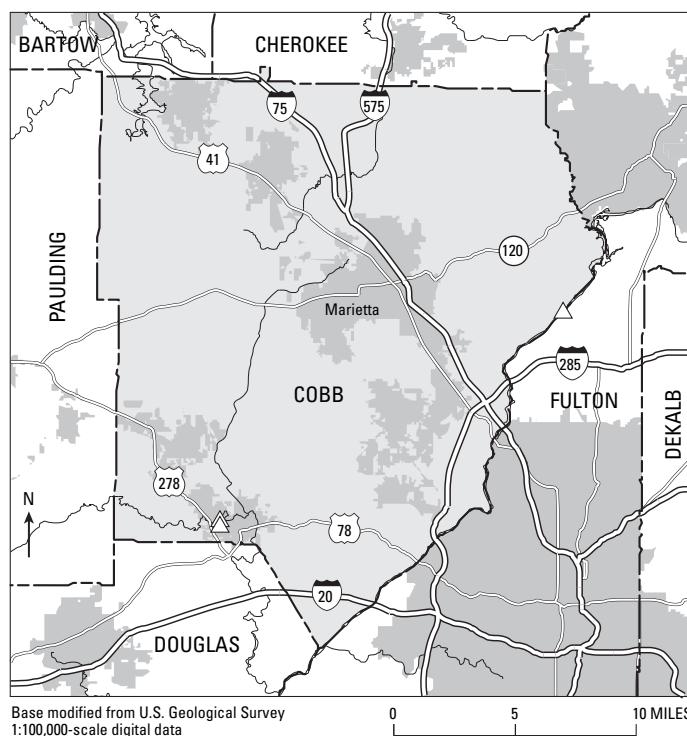
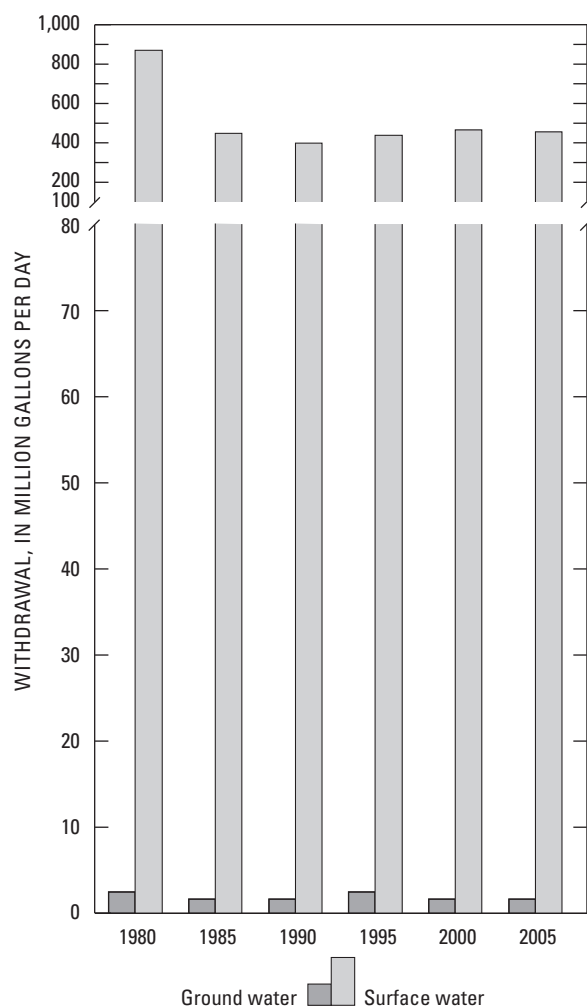
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	1.00	0.80	0.02	0.01	0.00	1.83
Surface Water	91.36	0.00	0.37	2.91	0.02	362.58	457.24
TOTALS	91.36	1.00	1.17	2.93	0.03	362.58	459.07

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Cobb County–Marietta Water Authority	0.00	46.95
Cobb County–Marietta Water Authority (water source located in Bartow County)	0.00	44.42

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.00	0.36



WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

COFFEE COUNTY

Population: 39,674

Population served by public supply: 17,900

Acres irrigated: 22,690

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

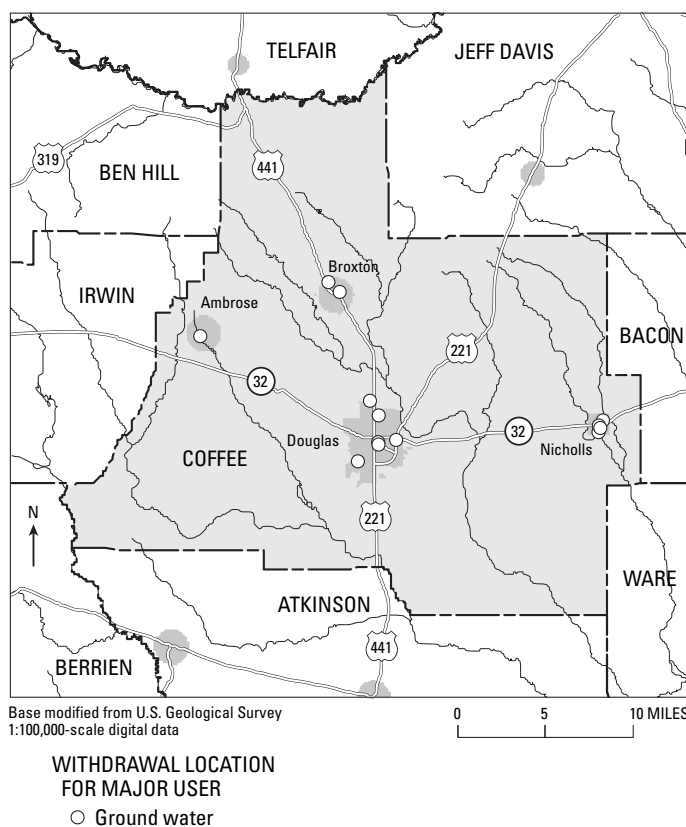
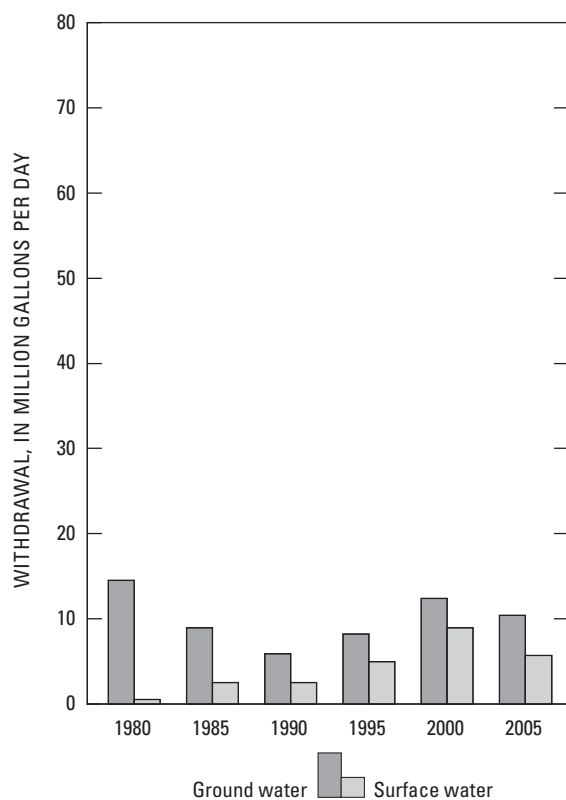
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.68	1.63	0.00	4.05	0.07	0.00	10.43
Surface Water	0.00	0.00	0.00	5.10	0.60	0.00	5.70
TOTALS	4.68	1.63	0.00	9.15	0.67	0.00	16.13

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Ambrose	0.03	0.00
City of Broxton	0.00	0.00
City of Douglas	4.04	0.00
City of Nicholls	0.29	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



COLQUITT COUNTY

Population: 43,915

Population served by public supply: 24,260

Acres irrigated: 46,100

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

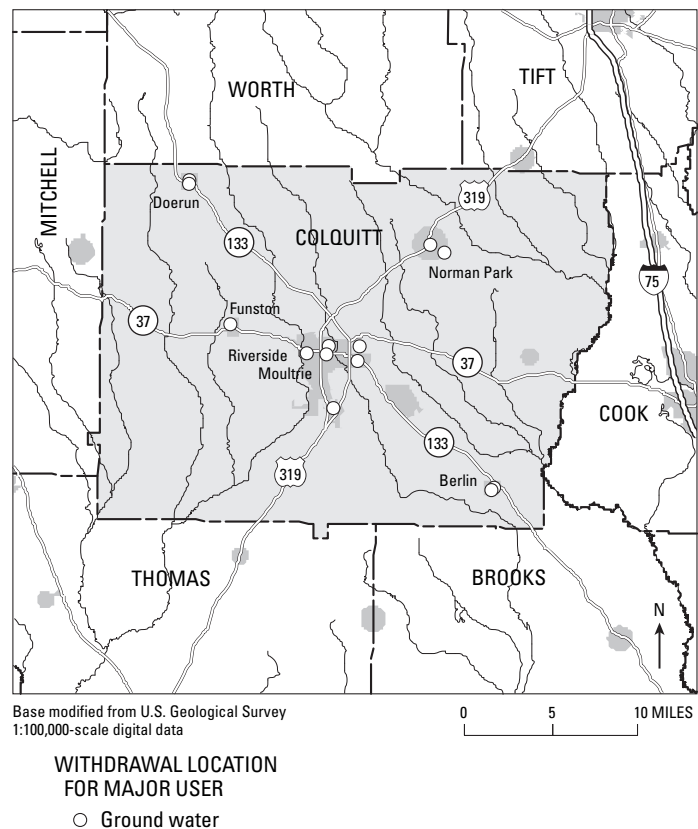
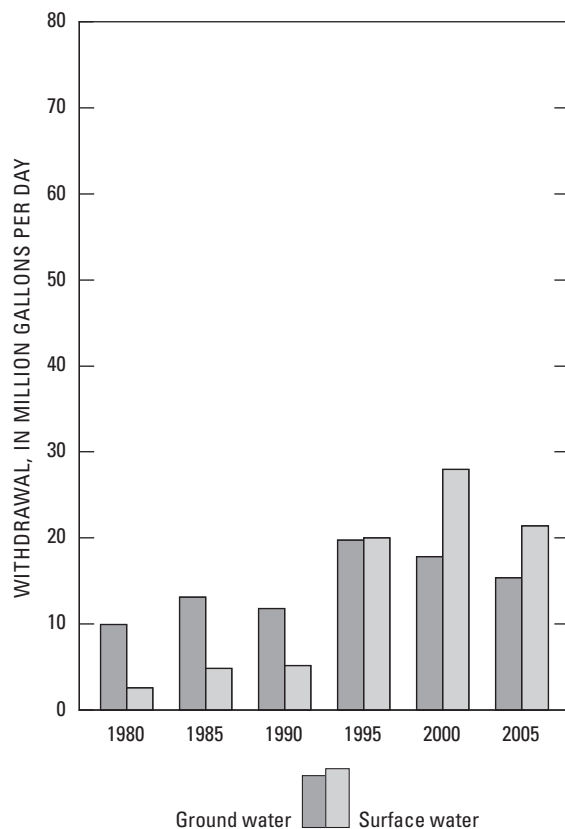
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.84	1.47	0.33	9.65	0.07	0.00	15.36
Surface Water	0.00	0.00	0.00	21.11	0.28	0.00	21.39
TOTALS	3.84	1.47	0.33	30.76	0.35	0.00	36.75

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Berlin	0.04	0.00
City of Doerun	0.08	0.00
City of Ellenton	0.03	0.00
Town of Funston	0.03	0.00
City of Moultrie	3.33	0.00
Town of Norman Park	0.00	0.00
Town of Riverside	0.07	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.32	0.00



COLUMBIA COUNTY

Population: 103,812

Population served by public supply: 90,710

Acres irrigated: 480

Hydroelectric use (Mgal/d): 3,855.20



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

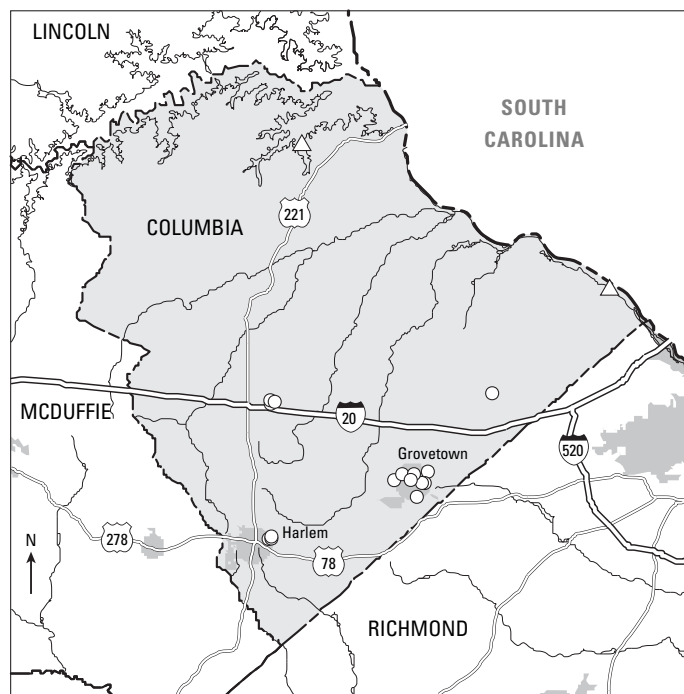
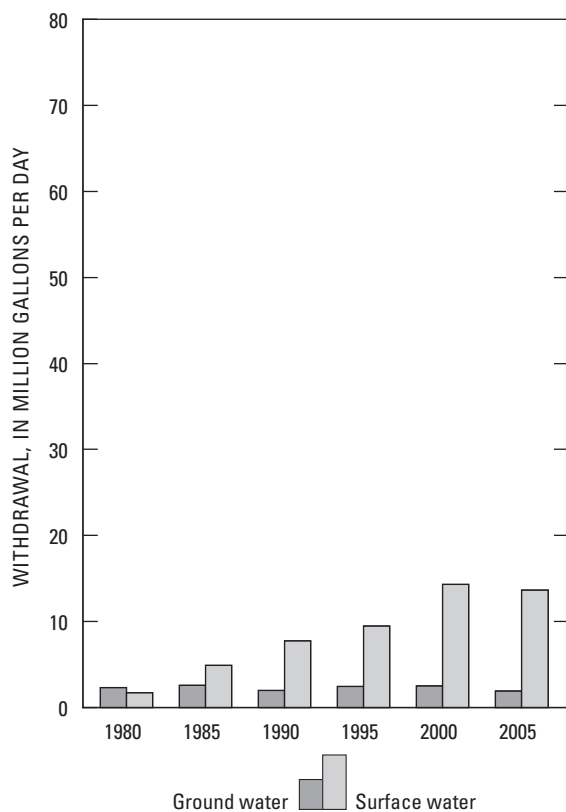
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.18	0.98	0.88	0.13	0.00	0.00	2.17
Surface Water	12.37	0.00	0.01	1.00	0.03	0.00	13.41
TOTALS	12.55	0.98	0.89	1.13	0.03	0.00	15.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Columbia County Water System	0.00	12.37
City of Grovetown	0.13	0.00
City of Harlem	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.07	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

COOK COUNTY

Population: 16,366

Population served by public supply: 9,110

Acres irrigated: 18,150

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

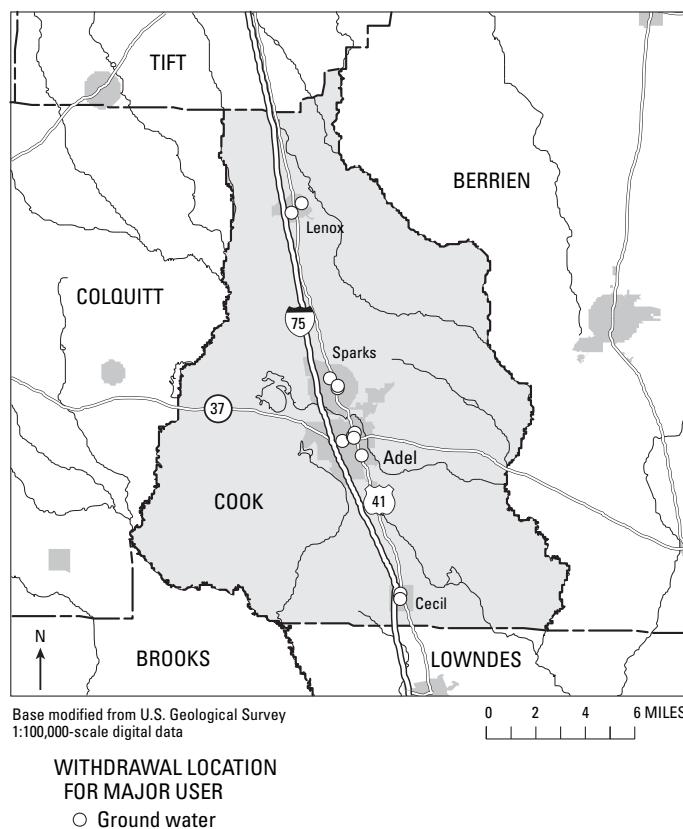
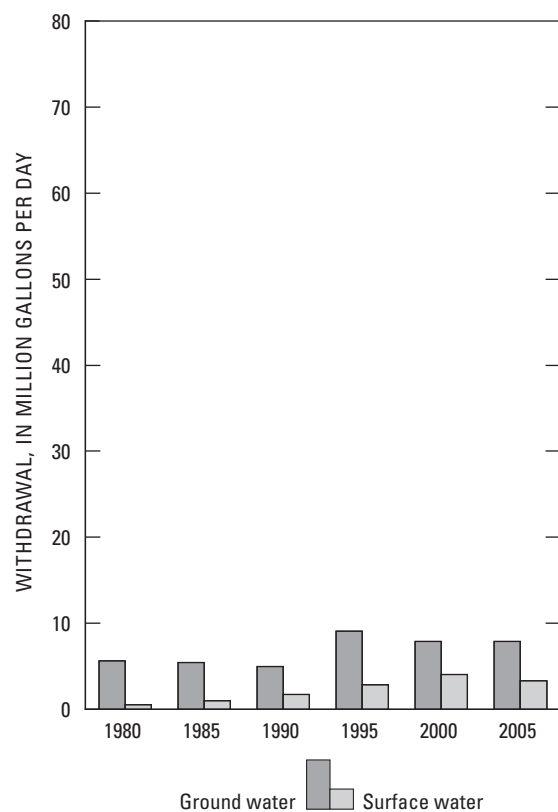
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.09	0.54	0.17	5.10	0.01	0.00	7.91
Surface Water	0.00	0.00	0.00	3.18	0.04	0.00	3.22
TOTALS	2.09	0.54	0.17	8.28	0.05	0.00	11.13

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Adel	1.53	0.00
Town of Cecil	0.03	0.00
Town of Lenox	0.08	0.00
Town of Sparks	0.38	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



COWETA COUNTY

Population: 109,903

Population served by public supply: 104,330

Acres irrigated: 1,180

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

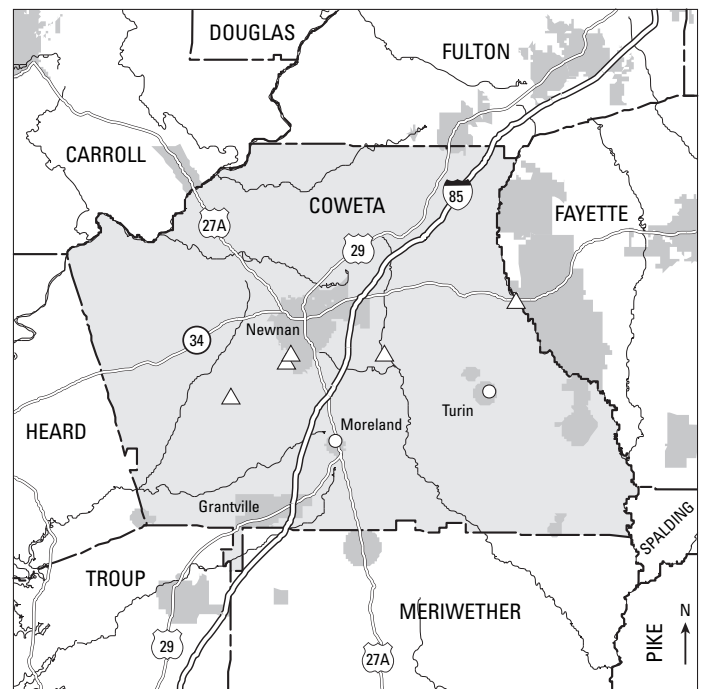
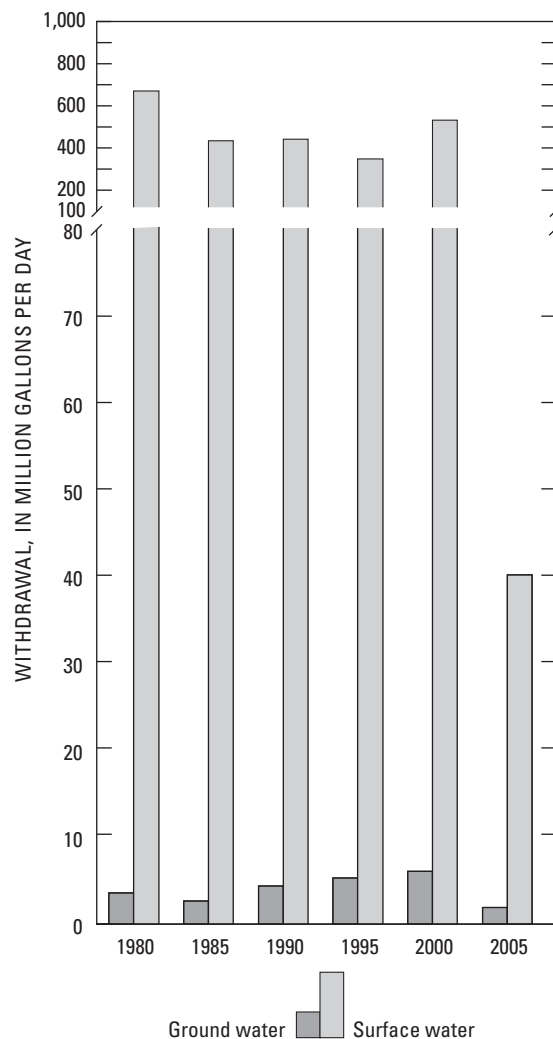
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.04	0.52	0.28	0.00	0.00	0.00	1.84
Surface Water	7.15	0.00	0.00	2.33	0.11	31.08	40.67
TOTALS	8.19	0.52	0.28	2.33	0.11	31.08	42.51

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Moreland	0.03	0.00
City of Newnan	0.00	6.92
Town of Turin	0.04	0.00
Coweta County Water System	0.69	0.00
City of Senoia	0.00	0.23

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

0 5 10 MILES

CRAWFORD COUNTY

Population: 12,874

Population served by public supply: 2,760

Acres irrigated: 3,170

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

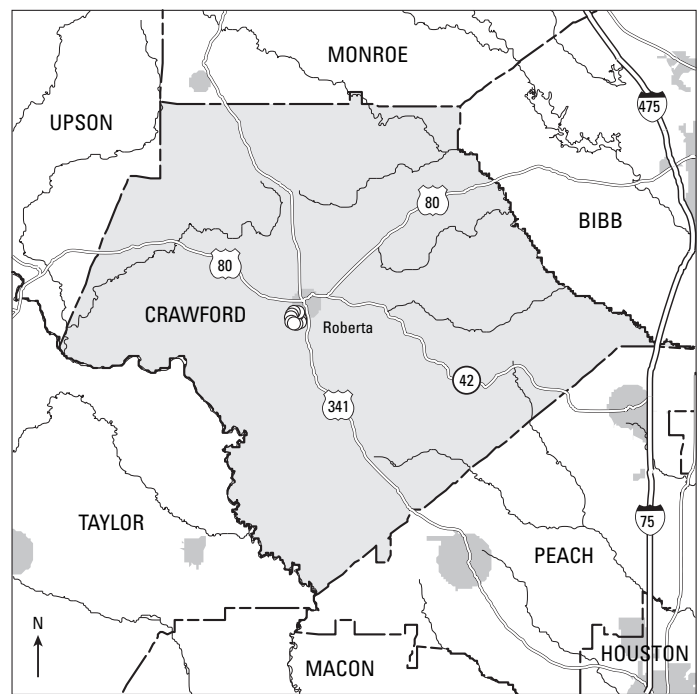
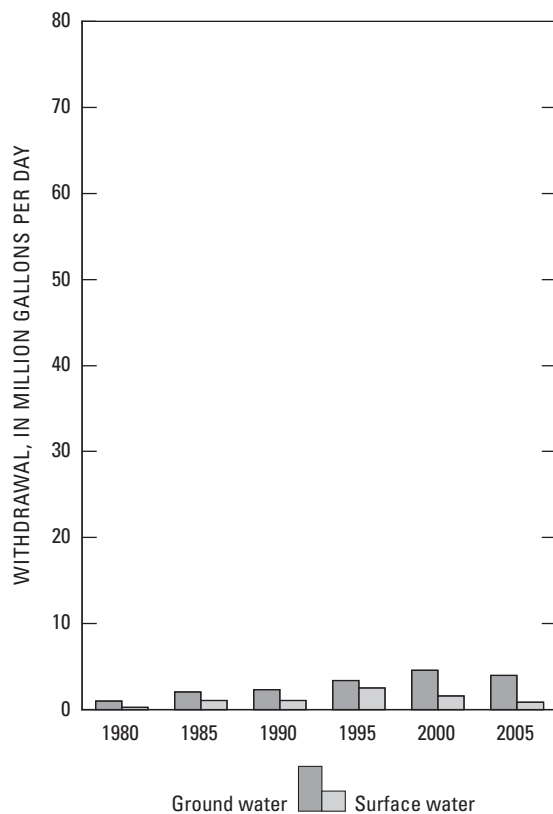
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.28	0.76	0.43	2.65	0.00	0.00	4.12
Surface Water	0.00	0.00	0.01	0.57	0.17	0.00	0.75
TOTALS	0.28	0.76	0.44	3.22	0.17	0.00	4.87

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Roberta	0.16	0.00
Crawford County Board of Commissioners	0.12	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION
FOR MAJOR USER**

○ Ground water

CRISP COUNTY

Population: 22,017

Population served by public supply: 17,170

Acres irrigated: 29,070

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

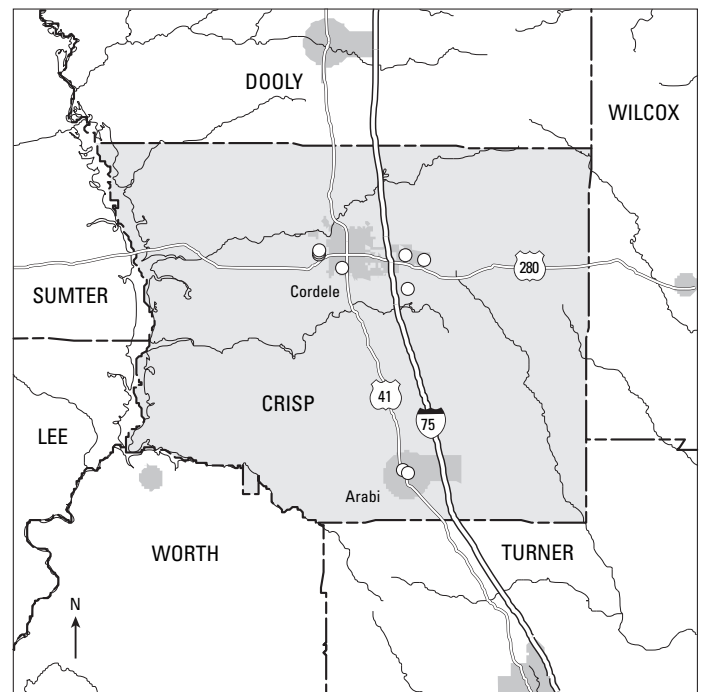
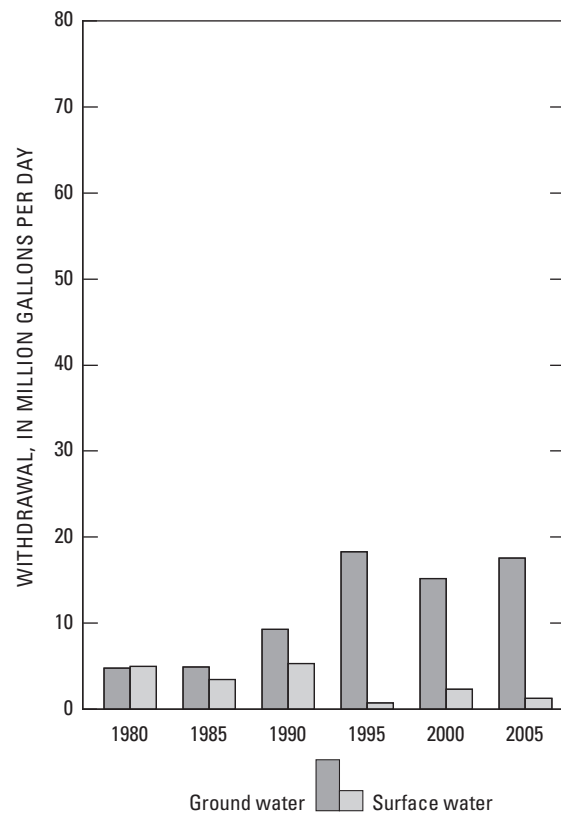
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.10	0.36	0.07	15.00	0.02	0.00	17.55
Surface Water	0.00	0.00	0.00	1.20	0.05	0.00	1.25
TOTALS	2.10	0.36	0.07	16.20	0.07	0.00	18.80

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Arabi	0.02	0.00
City of Cordele	1.79	0.00
Crisp County Waterworks	0.21	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.07	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

DADE COUNTY

Population: 16,040

Population served by public supply: 16,000

Acres irrigated: 320

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

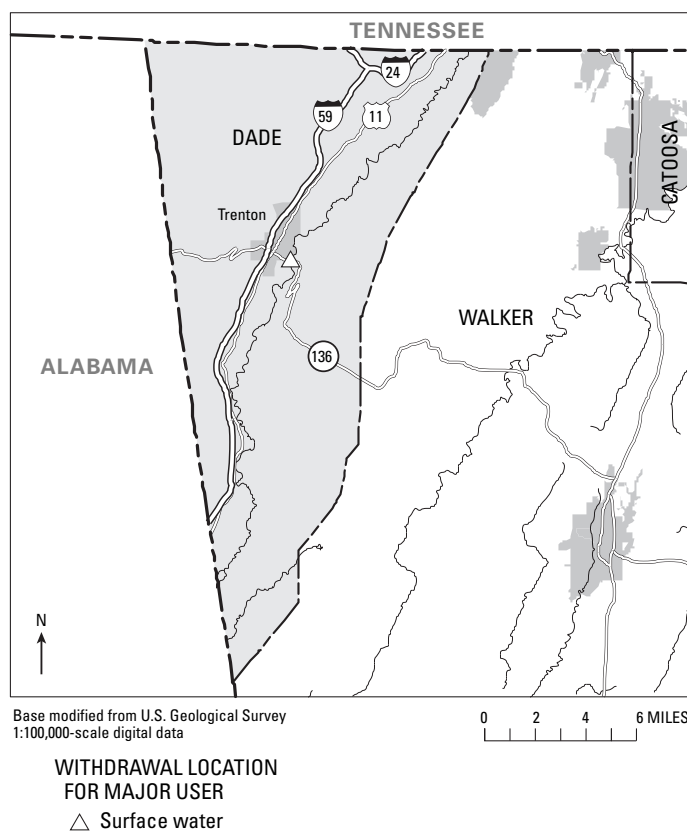
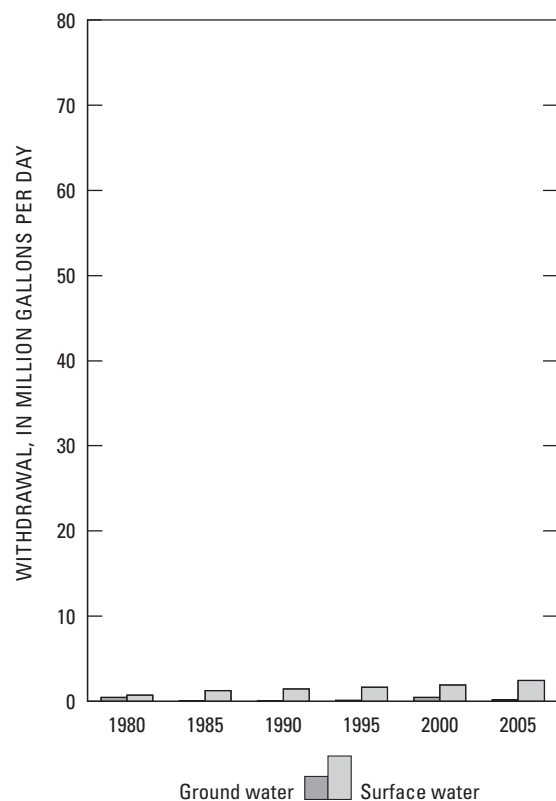
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.00	0.00	0.15	0.01	0.00	0.16
Surface Water	2.35	0.00	0.00	0.31	0.08	0.00	2.74
TOTALS	2.35	0.00	0.00	0.46	0.09	0.00	2.90

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Dade Water System	0.00	2.35

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



DAWSON COUNTY

Population: 19,731

Population served by public supply: 13,340

Acres irrigated: 290

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

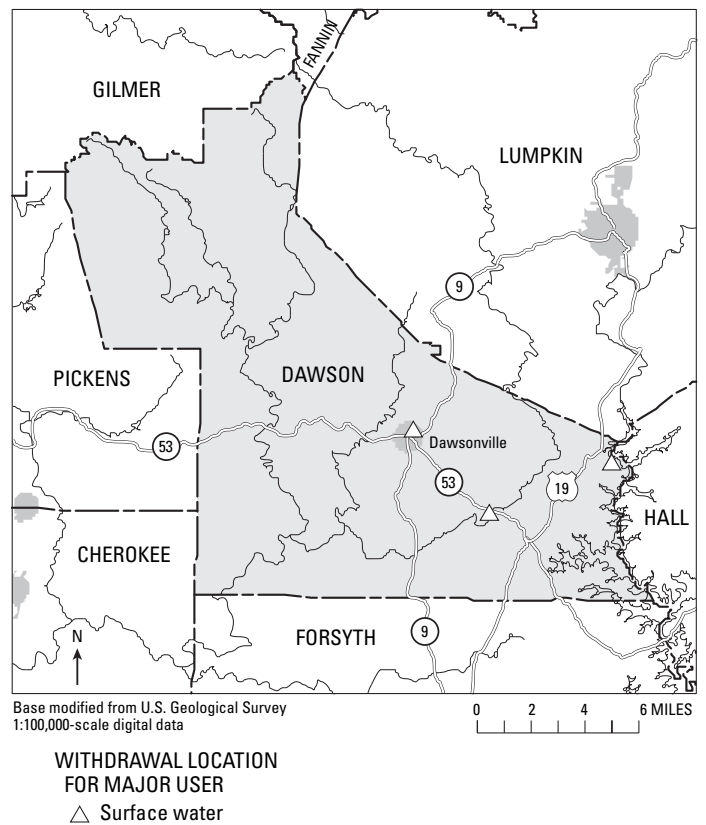
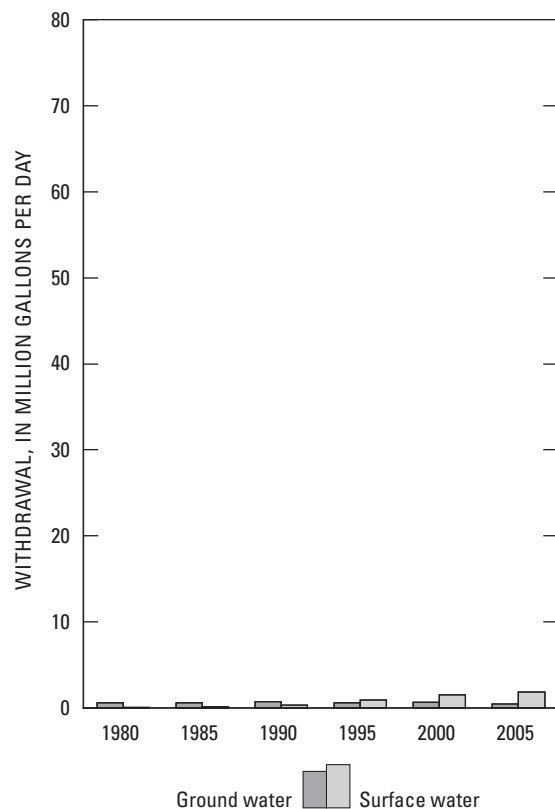
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.48	0.00	0.00	0.00	0.00	0.48
Surface Water	1.60	0.00	0.00	0.39	0.24	0.00	2.23
TOTALS	1.60	0.48	0.00	0.39	0.24	0.00	2.71

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Etowah Water & Sewer Authority	0.00	1.50
Town of Dawsonville	0.00	0.10

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



DECATUR COUNTY

Population: 28,618

Population served by public supply: 14,390

Acres irrigated: 65,000

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

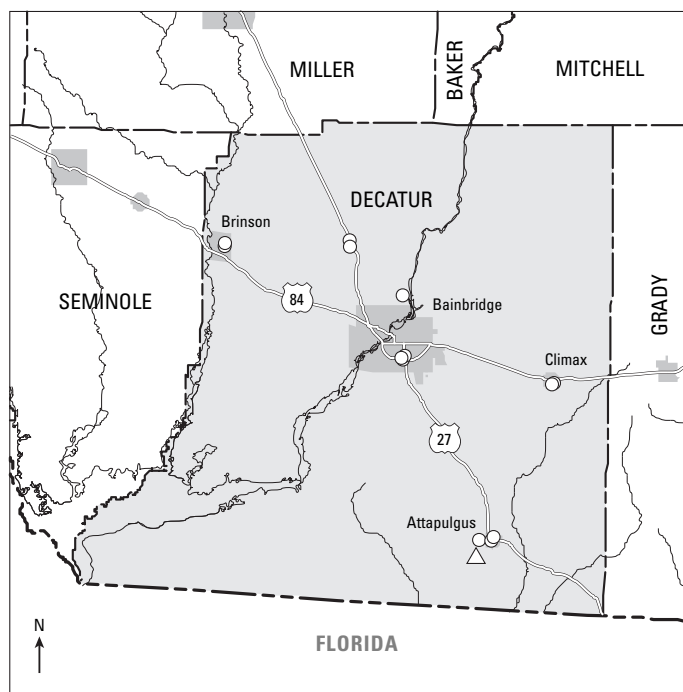
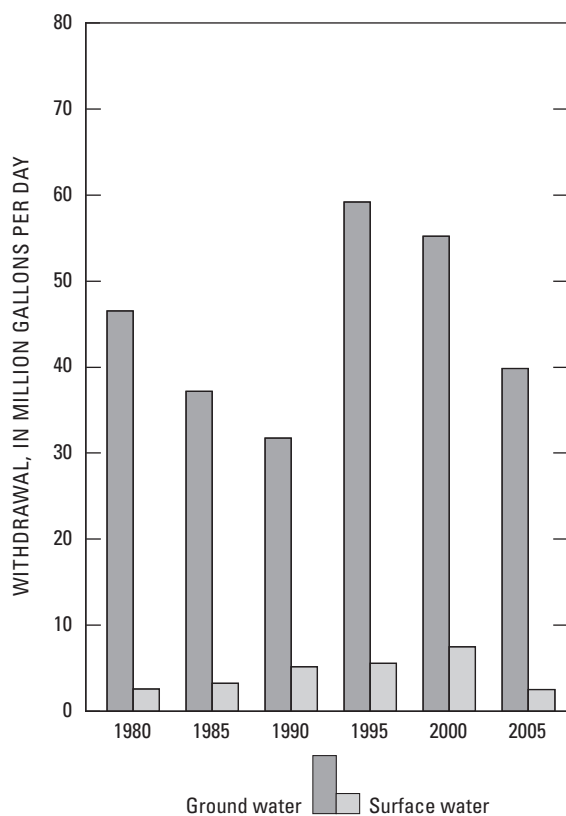
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.87	1.45	0.60	34.79	0.16	0.00	39.87
Surface Water	0.00	0.00	0.54	1.85	0.07	0.00	2.46
TOTALS	2.87	1.45	1.14	36.64	0.23	0.00	42.33

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Attapulgus	0.06	0.00
City of Bainbridge	2.69	0.00
Town of Brinson	0.02	0.00
Town of Climax	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.30	0.00
32 - Stone, clay	0.05	0.54



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

△ Surface water

0 5 10 MILES

DEKALB COUNTY

Population: 677,959

Population served by public supply: 637,280

Acres irrigated: 1,180

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	3.05	0.96	0.00	0.00	0.00	4.01
Surface Water	83.05 ^a	0.00	0.01	1.77	0.00	0.00	84.83
TOTALS	83.05	3.05	0.97	1.77	0.00	0.00	88.84

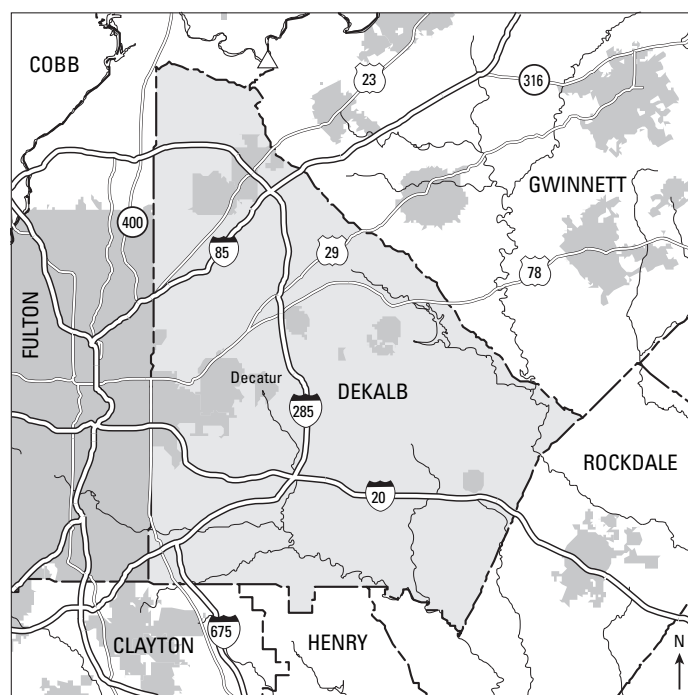
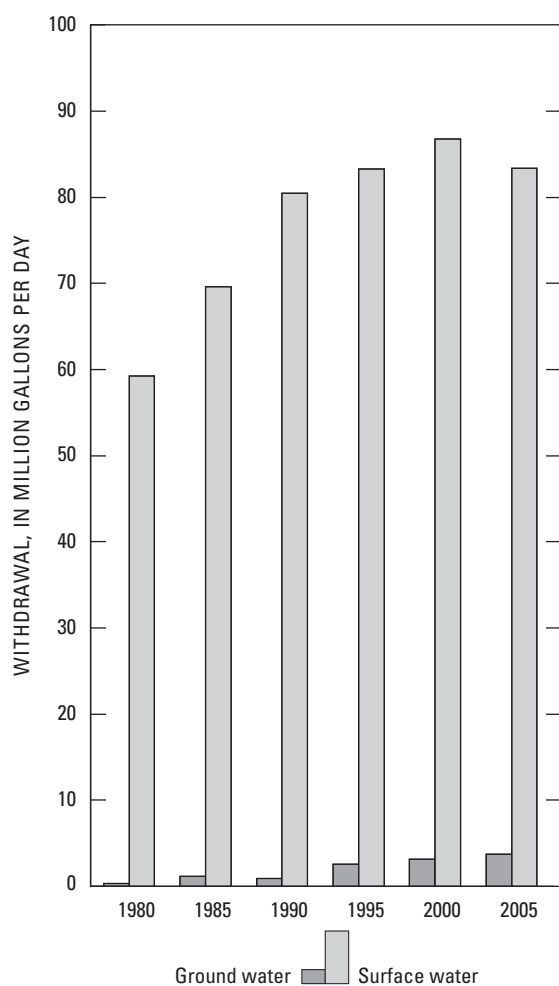
Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
DeKalb County Water System	0.00	83.05 ^a

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

^a Water used in DeKalb County but withdrawn from Fulton County.



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

0 2 4 6 MILES

DODGE COUNTY

Population: 19,574

Population served by public supply: 7,330

Acres irrigated: 22,530

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

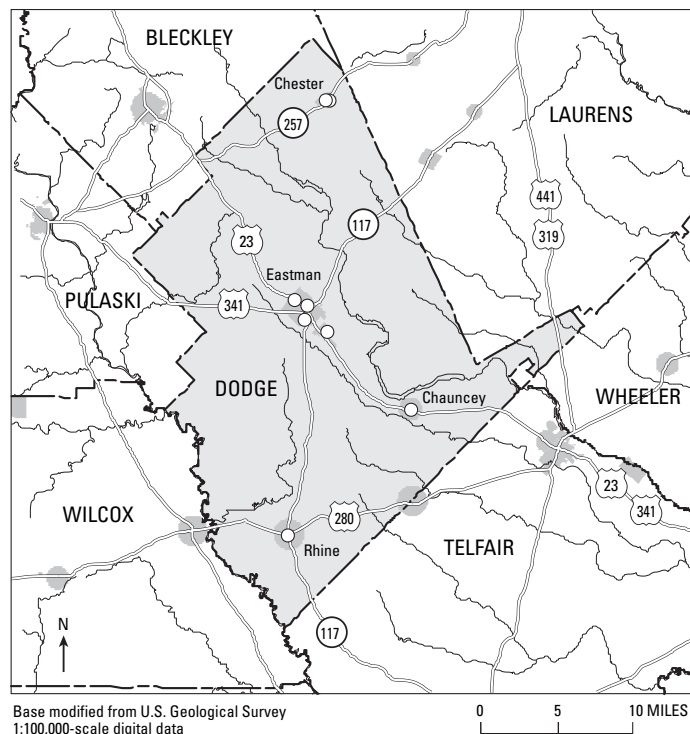
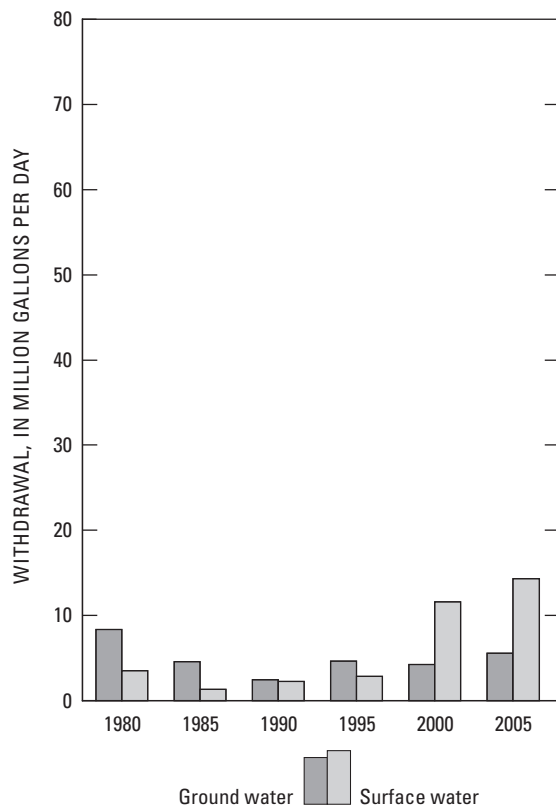
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.72	0.92	0.00	3.20	0.75	0.00	5.59
Surface Water	0.00	0.00	0.00	14.24	0.10	0.00	14.34
TOTALS	0.72	0.92	0.00	17.44	0.85	0.00	19.93

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Chauncey	0.03	0.00
Town of Chester	0.08	0.00
City of Eastman	0.58	0.00
Town of Rhine	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

○ Ground water

DOOLY COUNTY

Population: 11,749

Population served by public supply: 7,740

Acres irrigated: 44,500

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

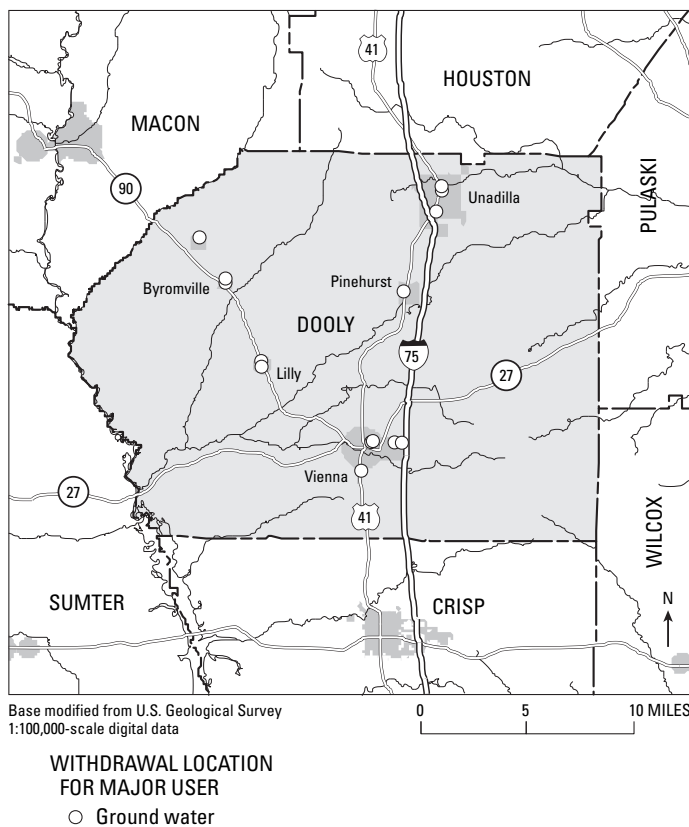
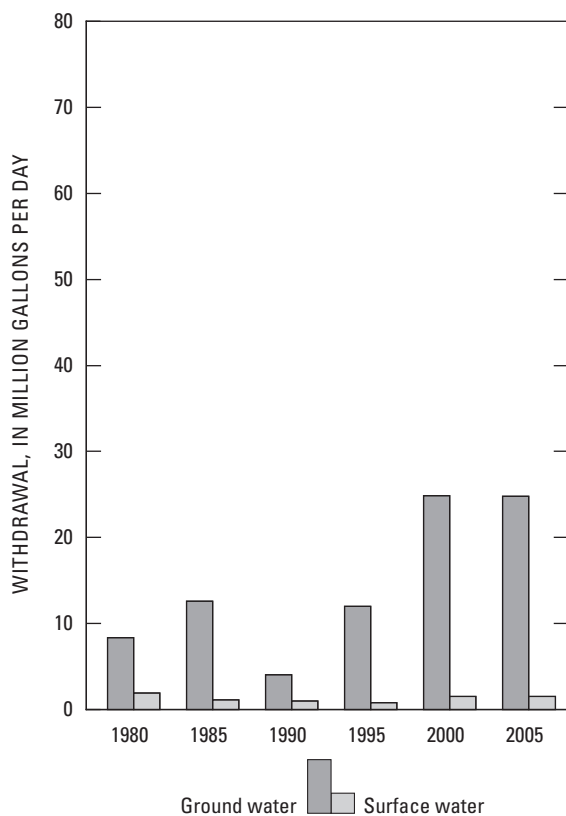
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.21	0.30	0.00	22.25	0.03	0.00	24.79
Surface Water	0.00	0.00	0.00	1.34	0.16	0.00	1.50
TOTALS	2.21	0.30	0.00	23.59	0.19	0.00	26.29

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Byromville	0.03	0.00
Town of Lilly	0.02	0.00
City of Pinehurst	0.03	0.00
City of Unadilla	0.52	0.00
City of Vienna	1.59	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



DOUGHERTY COUNTY

Population: 94,882

Population served by public supply: 91,170

Acres irrigated: 23,350

Hydroelectric use (Mgal/d): 1,000.32



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

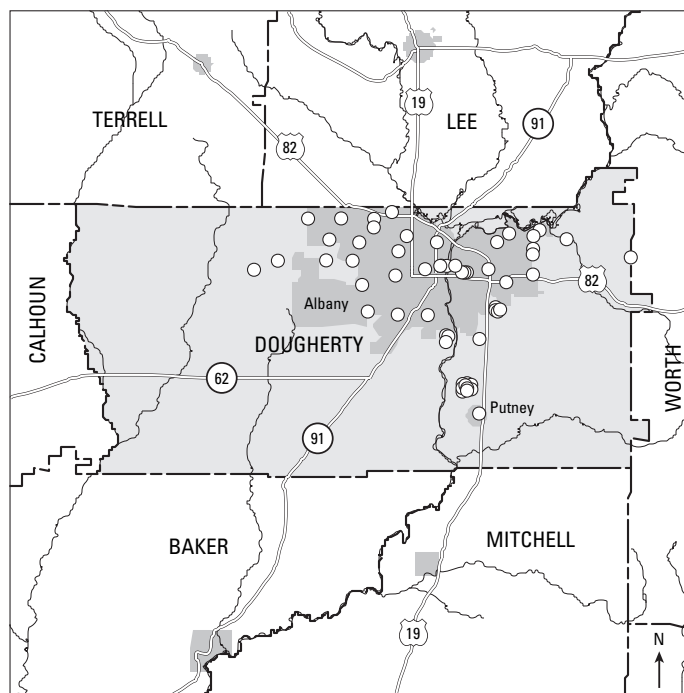
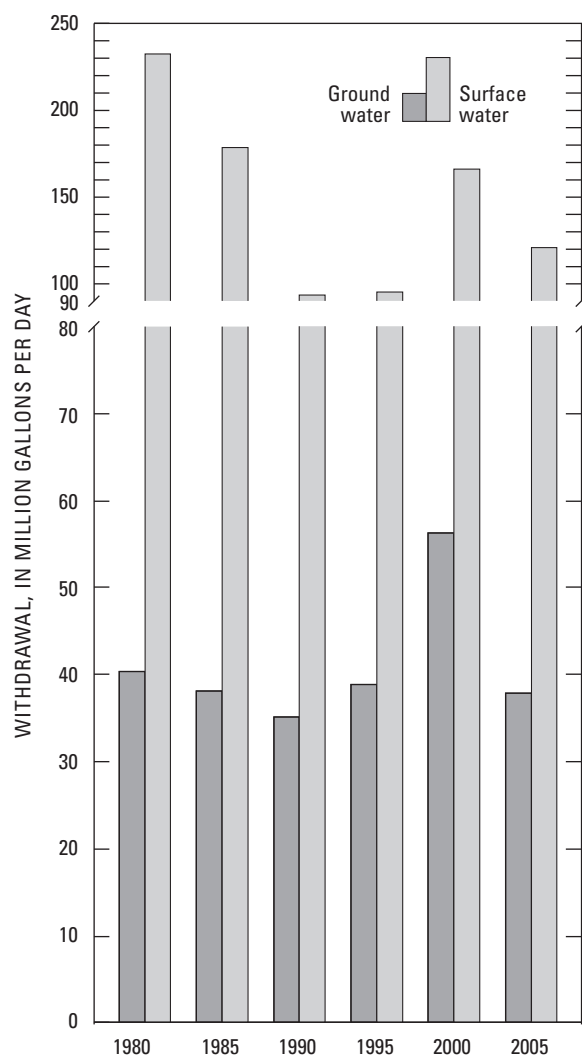
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	13.73	0.90	13.62	9.48	0.02	0.05	37.80
Surface Water	0.00	0.00	0.00	1.49	0.01	120.09	121.59
TOTALS	13.73	0.90	13.62	10.97	0.03	120.14	159.39

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Albany	13.33	0.00
Putney Water System	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	2.19	0.00
26 - Paper	6.64	0.00
28 - Chemicals	4.61	0.00
30 - Rubber	0.10	0.00
32 - Stone, clay	0.04	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION
FOR MAJOR USER

○ Ground water

DOUGLAS COUNTY

Population: 112,760

Population served by public supply: 73,820

Acres irrigated: 1,500

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

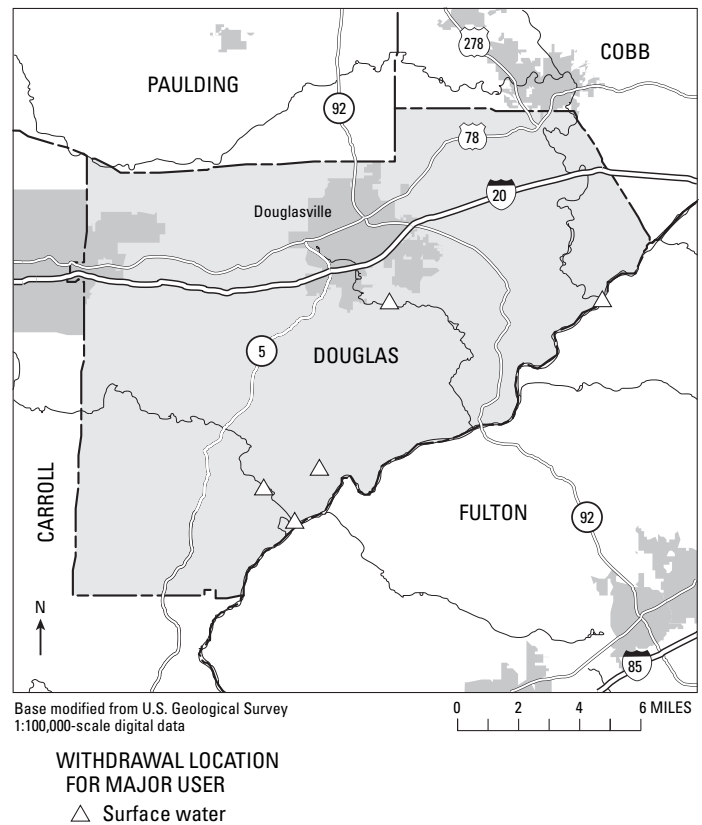
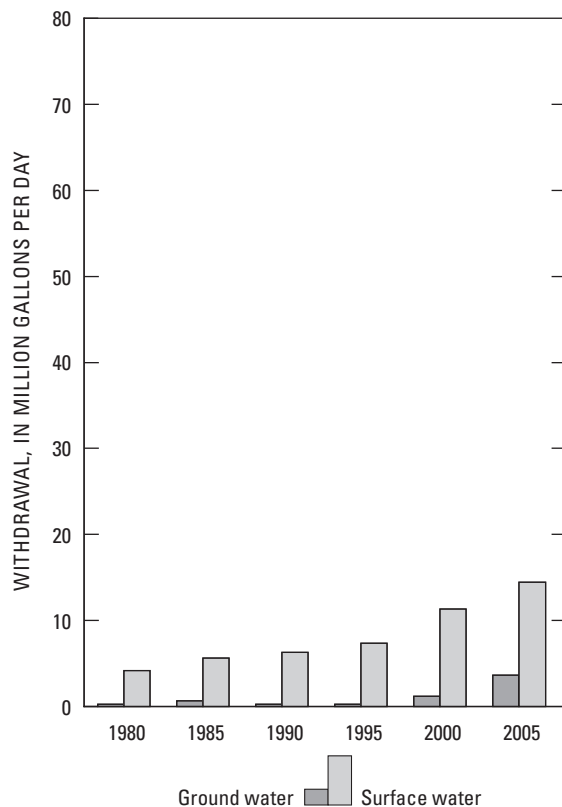
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.06	2.92	0.93	0.00	0.01	0.00	3.92
Surface Water	12.33	0.00	0.01	1.77	0.02	0.00	14.13
TOTALS	12.39	2.92	0.94	1.77	0.03	0.00	18.05

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Douglasville–Douglas County Water & Sewer Authority	0.00	12.33

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



EARLY COUNTY

Population: 12,056

Population served by public supply: 6,100

Acres irrigated: 56,080

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

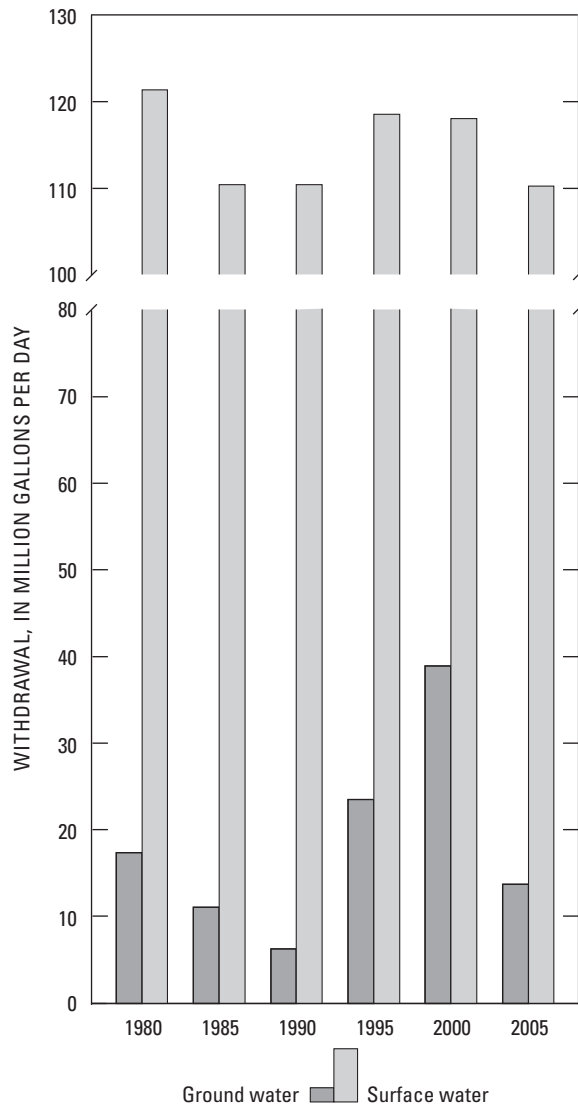
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.90	0.45	0.42	11.79	0.10	0.00	13.66
Surface Water	0.00	0.00	107.14	3.02	0.08	0.00	110.24
TOTALS	0.90	0.45	107.56	14.81	0.18	0.00	123.90

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Blakely	0.86	0.00
Town of Damascus	0.02	0.00
Town of Jakin	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.08	107.14
36 - Electrical Machinery	0.34	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

ECHOLS COUNTY

Population: 4,253

Population served by public supply: 710

Acres irrigated: 3,320

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

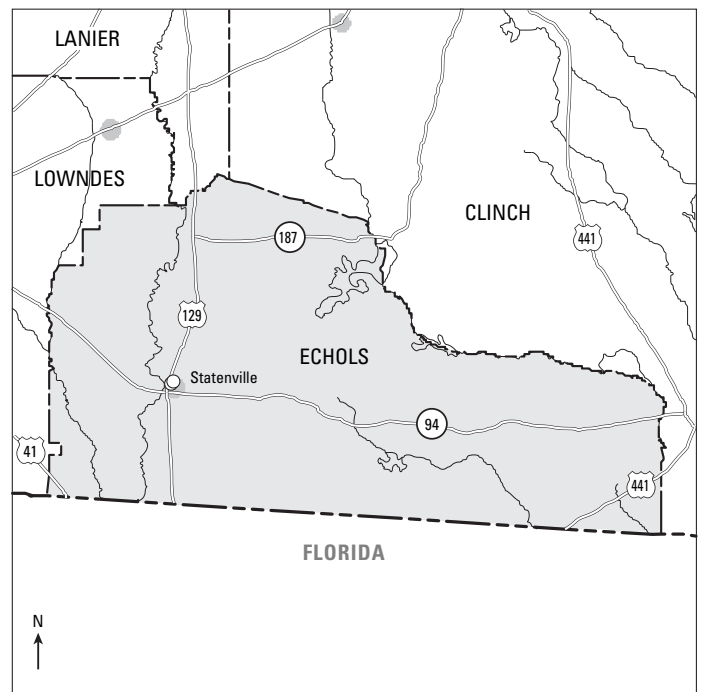
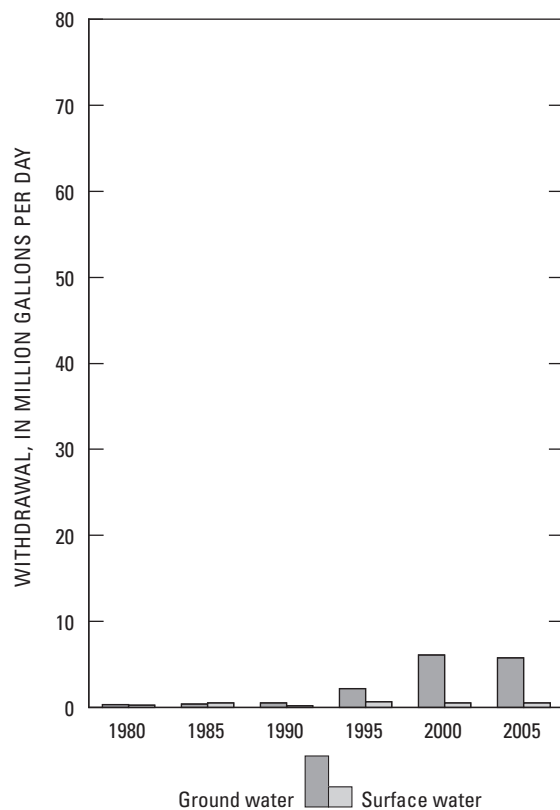
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.05	0.27	0.00	5.46	0.00	0.00	5.78
Surface Water	0.00	0.00	0.00	0.49	0.01	0.00	0.50
TOTALS	0.05	0.27	0.00	5.95	0.01	0.00	6.28

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Echols County Water Authority	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

EFFINGHAM COUNTY

Population: 46,924

Population served by public supply: 25,840

Acres irrigated: 1,100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

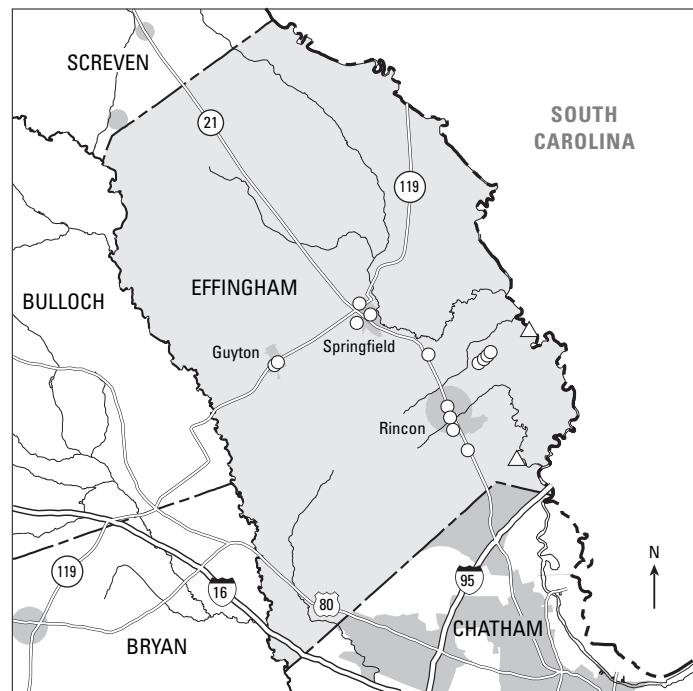
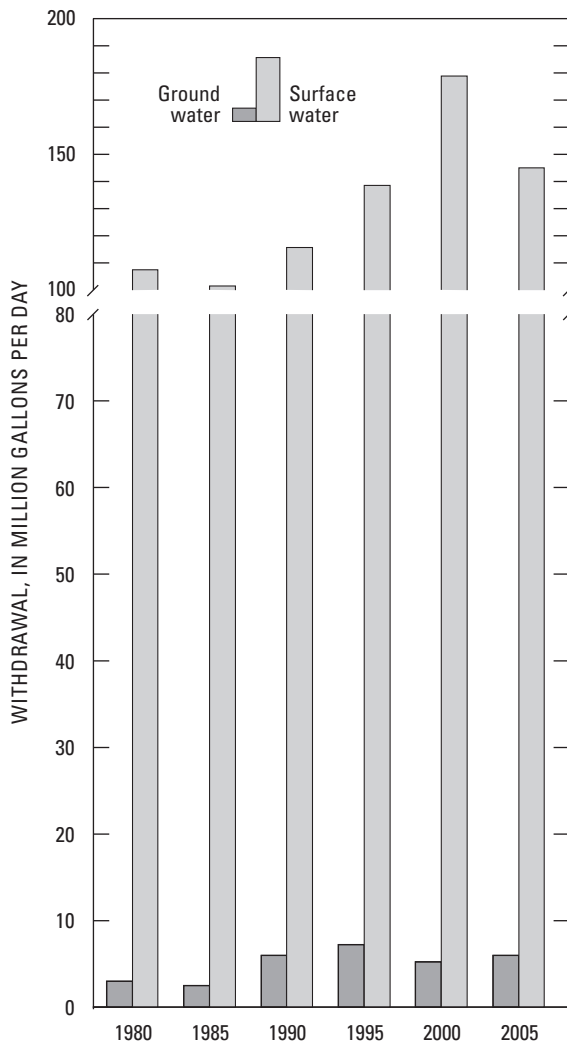
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.96	1.62	2.07	0.23	0.04	0.04	5.96
Surface Water	34.33	0.00	15.77	0.29	0.03	94.49	144.91
TOTALS	36.29	1.62	17.84	0.52	0.07	94.53	150.87

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Coastal Water & Sewer Commission	0.13	0.00
City of Guyton	0.20	0.00
Town of Rincon	0.73	0.00
City of Springfield	0.32	0.00
Savannah Industrial and Domestic	0.00	34.33

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	1.83	15.77



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

ELBERT COUNTY

Population: 20,799

Population served by public supply: 10,200

Acres irrigated: 550

Hydroelectric use (Mgal/d): 2,414.79



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

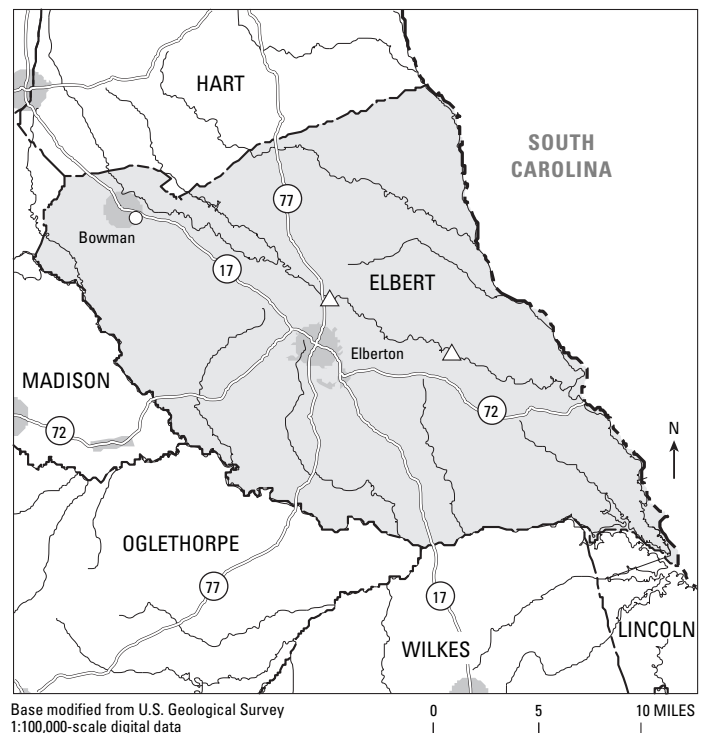
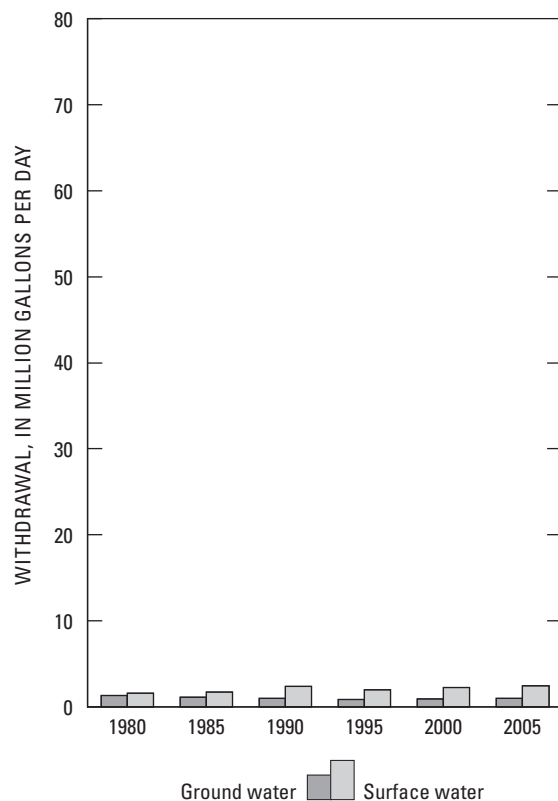
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.11	0.80	0.04	0.00	0.02	0.00	0.97
Surface Water	1.73	0.00	0.00	0.45	0.25	0.00	2.43
TOTALS	1.84	0.80	0.04	0.45	0.27	0.00	3.40

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Bowman	0.09	0.00
City of Elberton	0.00	1.73

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

EMANUEL COUNTY

Population: 22,108

Population served by public supply: 11,990

Acres irrigated: 6,820

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

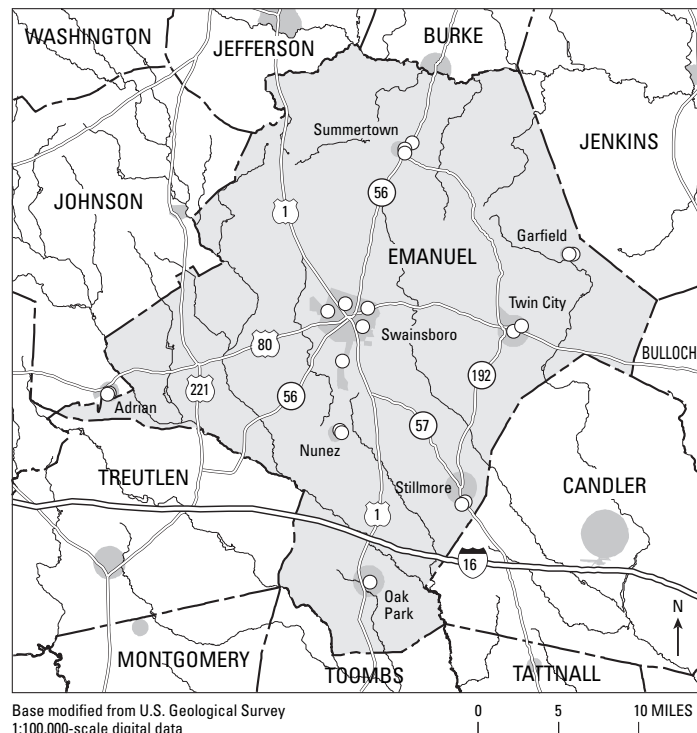
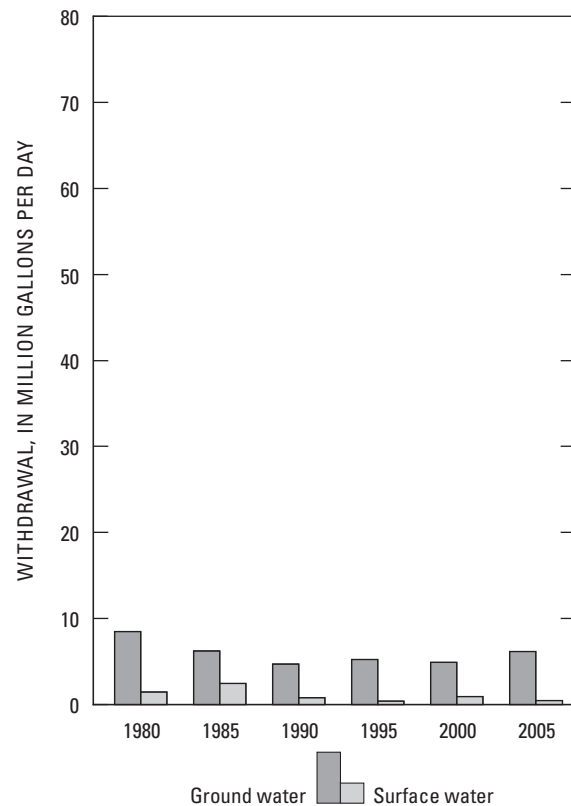
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.03	0.76	0.98	2.34	0.07	0.00	6.18
Surface Water	0.00	0.00	0.00	0.36	0.12	0.00	0.48
TOTALS	2.03	0.76	0.98	2.70	0.19	0.00	6.66

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Adrian	0.05	0.00
Town of Garfield	0.03	0.00
Town of Nunez	0.01	0.00
Town of Oak Park	0.03	0.00
Town of Stillmore	0.05	0.00
Town of Summertown	0.02	0.00
City of Swainsboro	1.54	0.00
City of Twin City	0.27	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.98	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

EVANS COUNTY

Population: 11,443

Population served by public supply: 5,880

Acres irrigated: 4,890

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

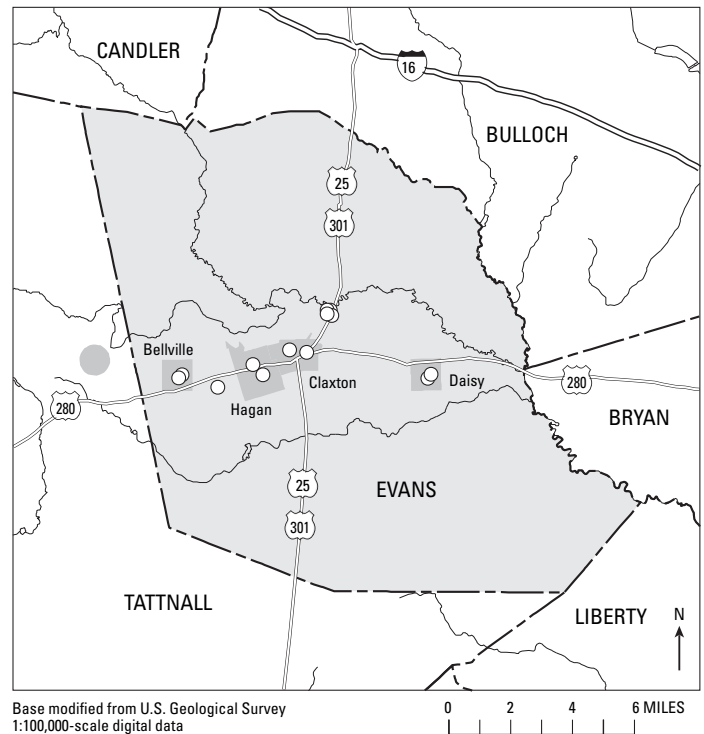
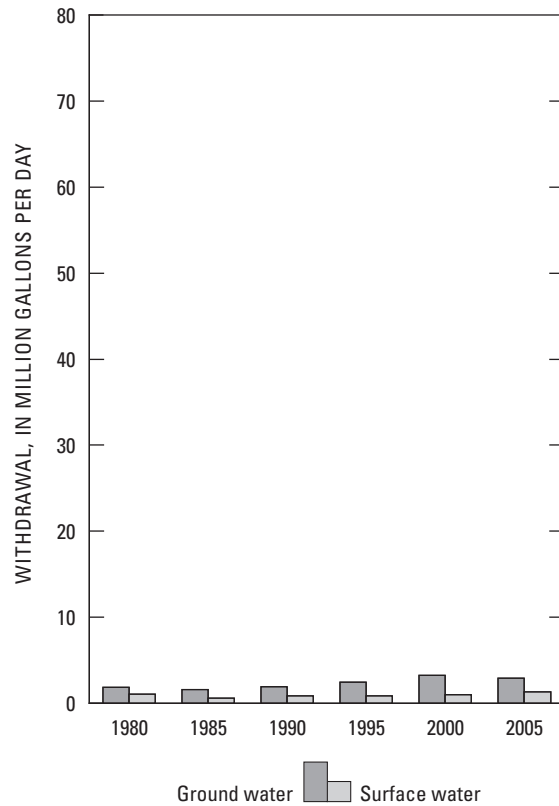
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.56	0.42	1.55	0.38	0.01	0.00	2.92
Surface Water	0.00	0.00	0.00	1.20	0.12	0.00	1.32
TOTALS	0.56	0.42	1.55	1.58	0.13	0.00	4.24

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Bellville	0.03	0.00
City of Claxton	0.42	0.00
City of Daisy	0.02	0.00
City of Hagan	0.08	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	1.55	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

FANNIN COUNTY

Population: 21,887

Population served by public supply: 11,760

Acres irrigated: 210

Hydroelectric use (Mgal/d): 525.21



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

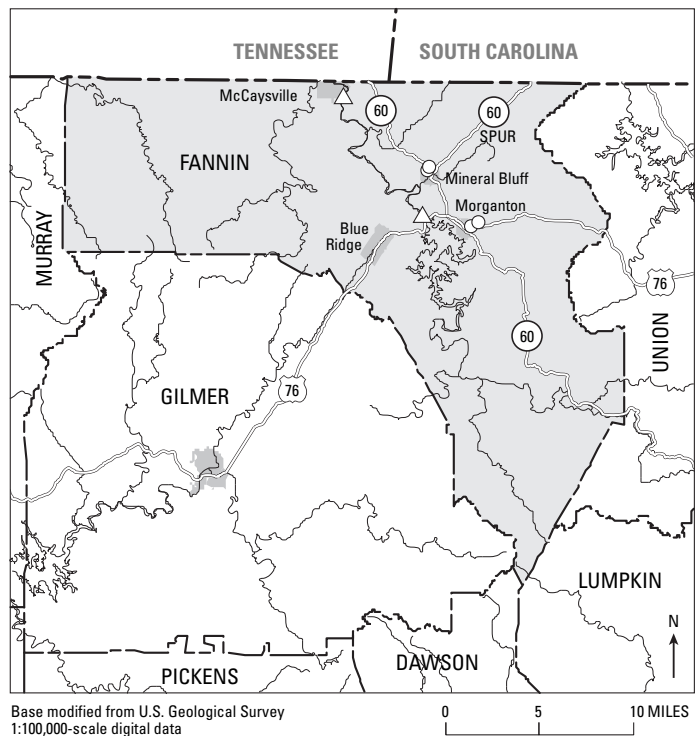
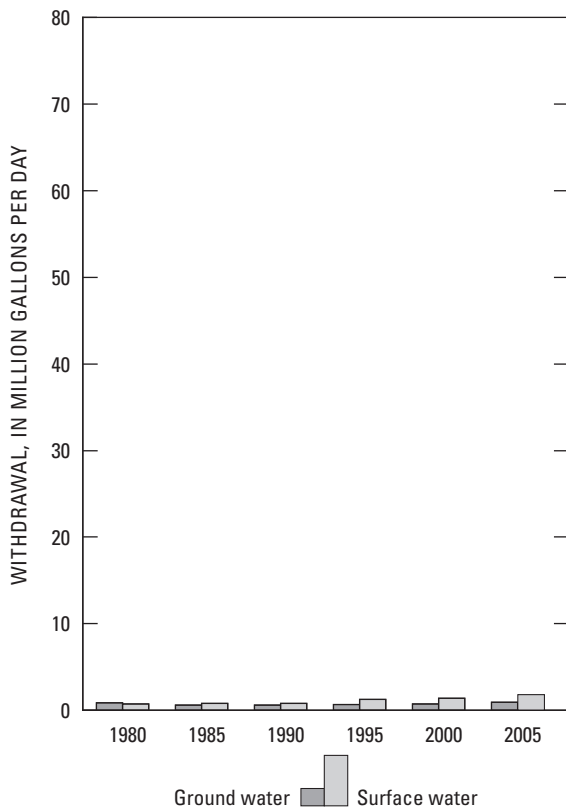
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.17	0.76	0.00	0.03	0.00	0.00	0.96
Surface Water	1.61	0.00	0.00	0.02	0.18	0.00	1.81
TOTALS	1.78	0.76	0.00	0.05	0.18	0.00	2.77

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Blue Ridge	0.00	0.84
City of McCaysville	0.00	0.76
Town of Mineral Bluff	0.05	0.00
Town of Morganton	0.11	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

FAYETTE COUNTY

Population: 104,248

Population served by public supply: 81,100

Acres irrigated: 840

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

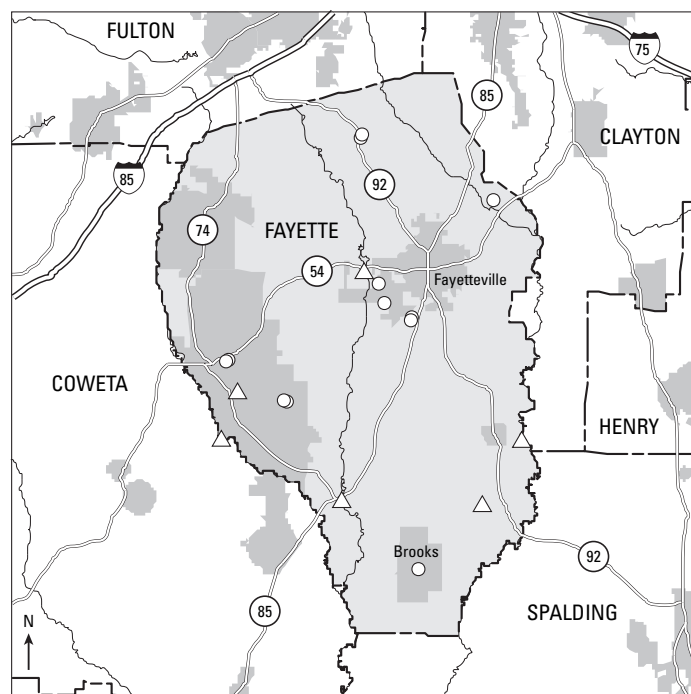
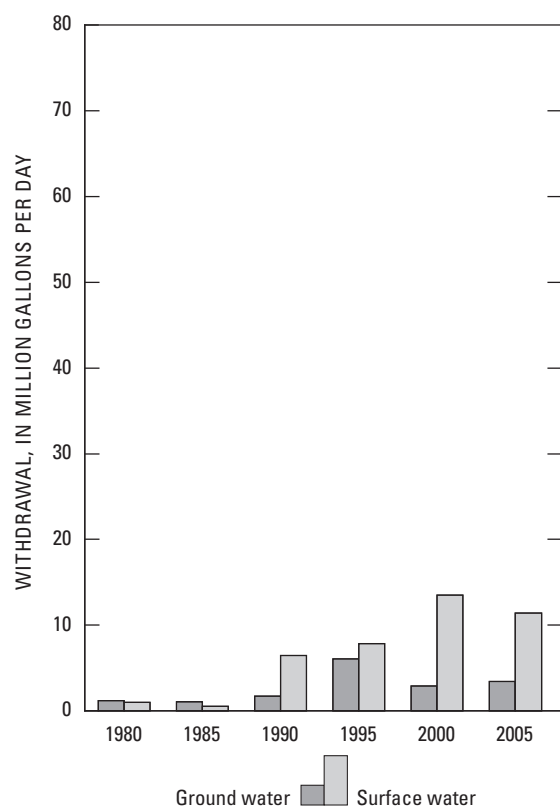
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.93	1.74	0.59	0.33	0.00	0.00	3.59
Surface Water	10.19	0.00	0.01	0.96	0.04	0.00	11.20
TOTALS	11.12	1.74	0.60	1.29	0.04	0.00	14.79

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Brooks	0.02	0.00
Fayette County Water System	0.12	8.41
City of Fayetteville	0.61	1.27
Board of Commission of Fayette County	0.00	0.51

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

FLOYD COUNTY

Population: 94,198

Population served by public supply: 93,350

Acres irrigated: 2,230

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

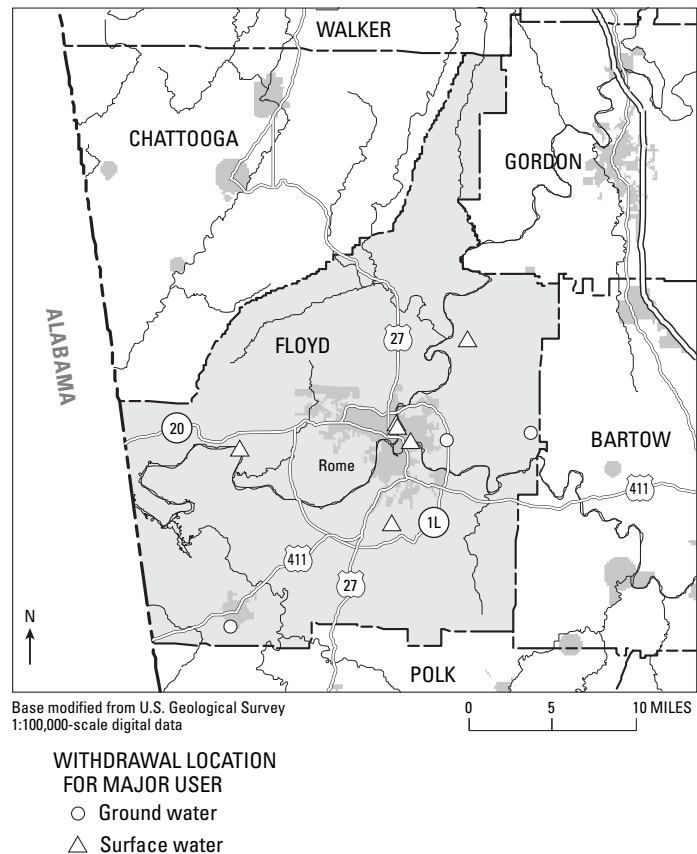
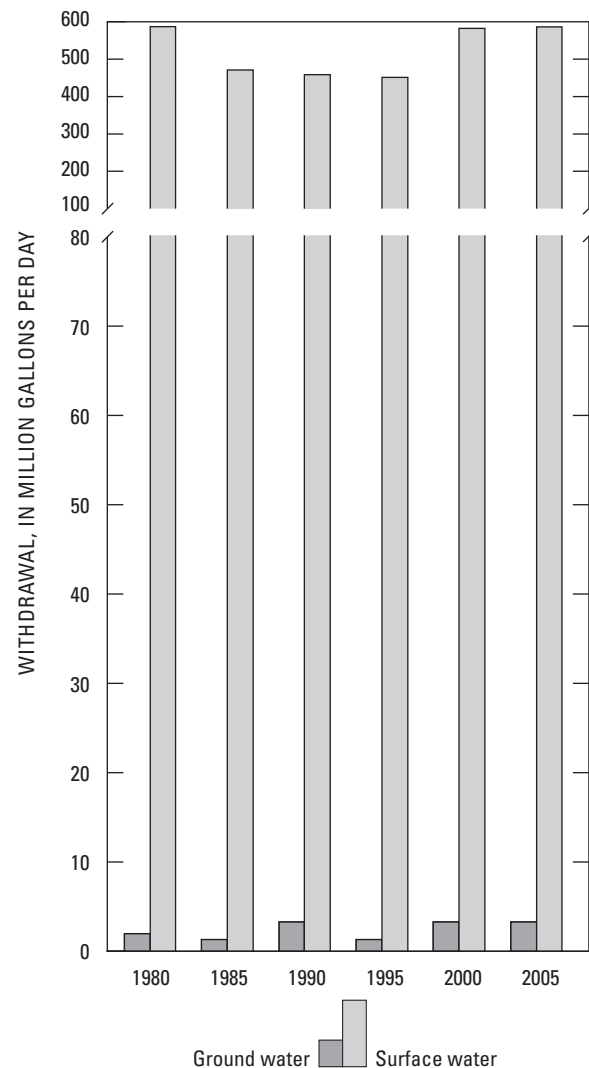
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.84	0.17	1.12	1.51	0.02	0.00	3.66
Surface Water	12.55	0.30	25.76	1.96	10.06	535.00	565.63
TOTALS	13.39	0.47	26.88	3.47	10.08	535.00	589.29

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cave Spring	0.55	0.00
Floyd County Water System	0.29	2.57
City of Rome	0.00	9.98

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.00	25.74



FORSYTH COUNTY

Population: 140,393

Population served by public supply: 98,400

Acres irrigated: 590

Hydroelectric use (Mgal/d): 1,343.36



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

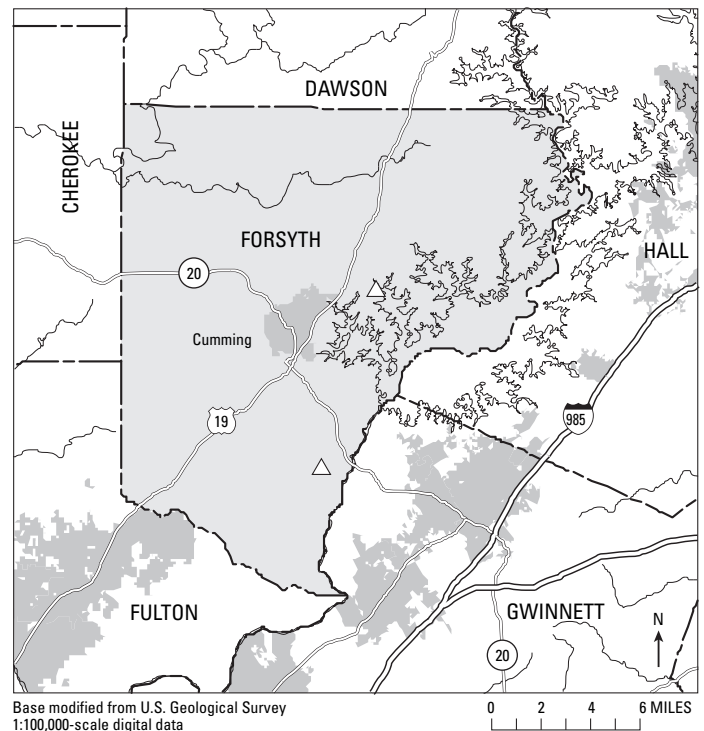
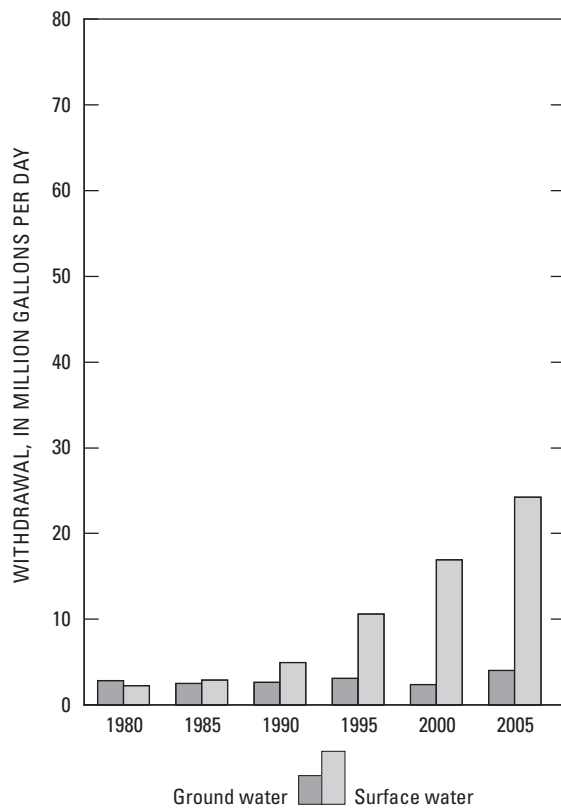
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.13	3.15	1.05	0.00	0.00	0.00	4.33
Surface Water	17.00	0.00	0.10	0.24	6.85	0.00	24.19
TOTALS	17.13	3.15	1.15	0.24	6.85	0.00	28.52

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cumming	0.00	10.51
Forsyth County Water System	0.00	6.49

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

FRANKLIN COUNTY

Population: 21,590

Population served by public supply: 10,490

Acres irrigated: 400

Hydroelectric use (Mgal/d): 1,222.26



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

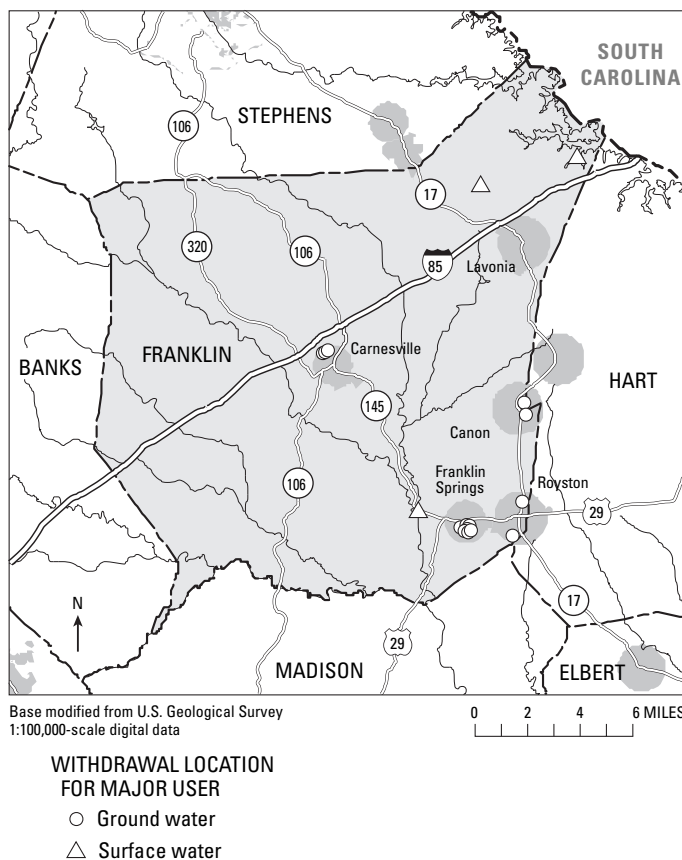
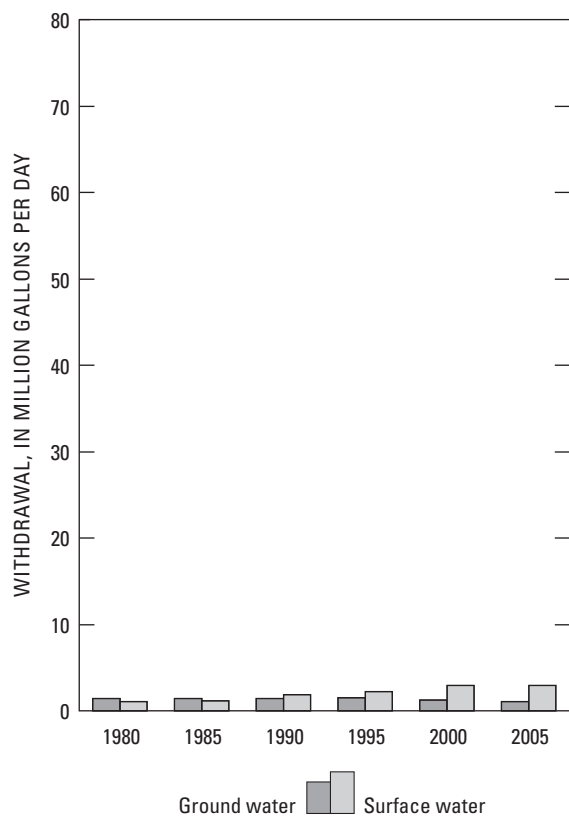
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.21	0.83	0.00	0.00	0.02	0.00	1.06
Surface Water	1.72	0.00	0.00	0.26	1.12	0.00	3.10
TOTALS	1.93	0.83	0.00	0.26	1.14	0.00	4.16

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Canon	0.07	0.00
City of Carnesville	0.04	0.00
City of Franklin Springs	0.10	0.00
City of Lavonia	0.00	1.41
City of Royston	0.00	0.31

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



FULTON COUNTY

Population: 915,623

Population served by public supply: 899,140

Acres irrigated: 2,970

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

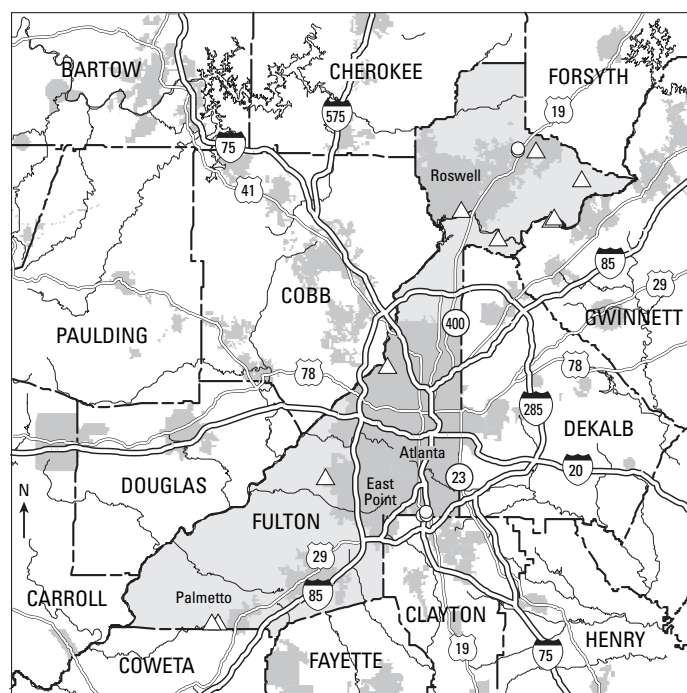
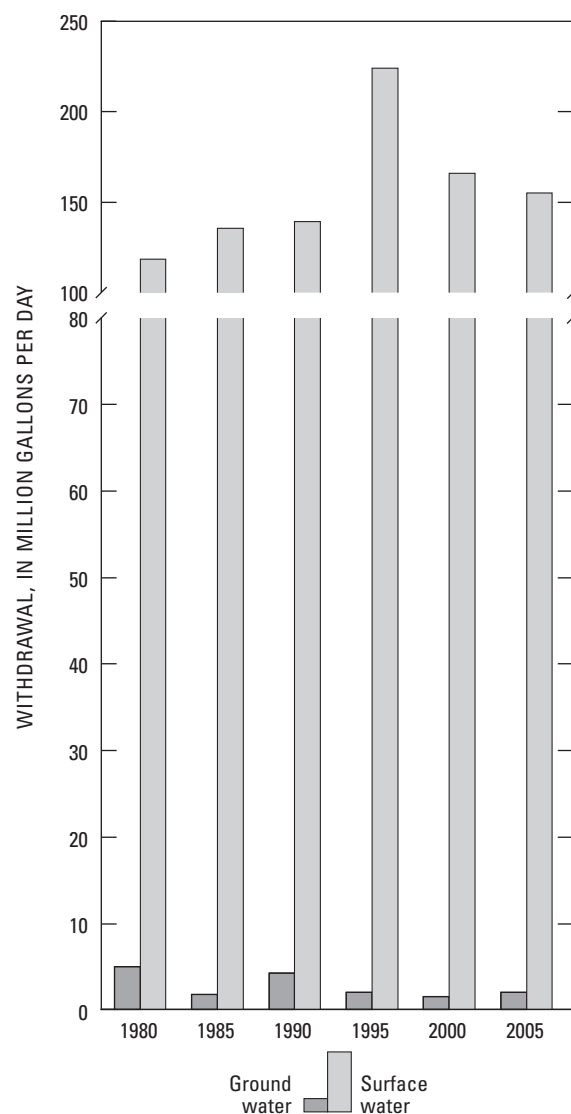
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	1.24	1.22	0.00	0.01	0.00	2.47
Surface Water	154.29	0.40	0.12	4.41	0.05	0.00	159.27
TOTALS	154.29	1.64	1.34	4.41	0.06	0.00	161.74

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Atlanta-Fulton County Water Resources Comm	0.00	42.80
City of Atlanta	0.00	100.47
City of East Point (water source located in Douglas County)	0.00	9.39
City of Roswell	0.00	1.19

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

GILMER COUNTY

Population: 27,335

Population served by public supply: 12,210

Acres irrigated: 120

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

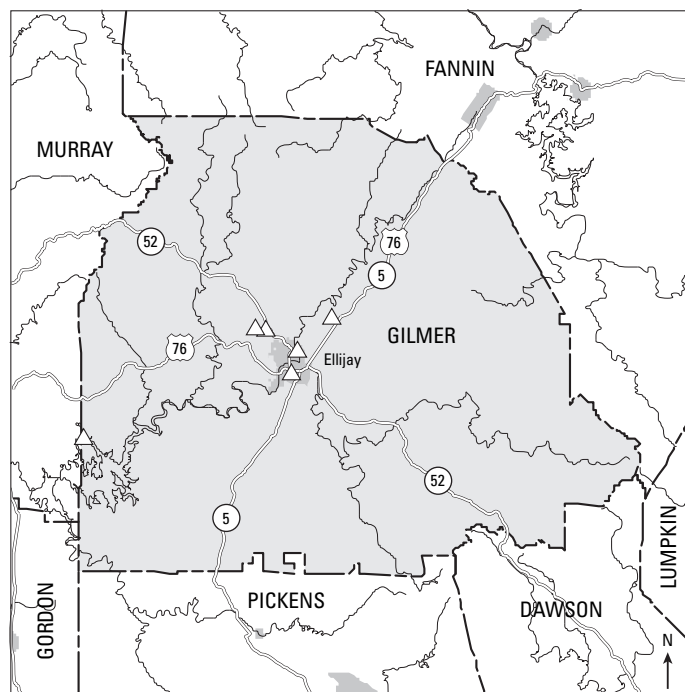
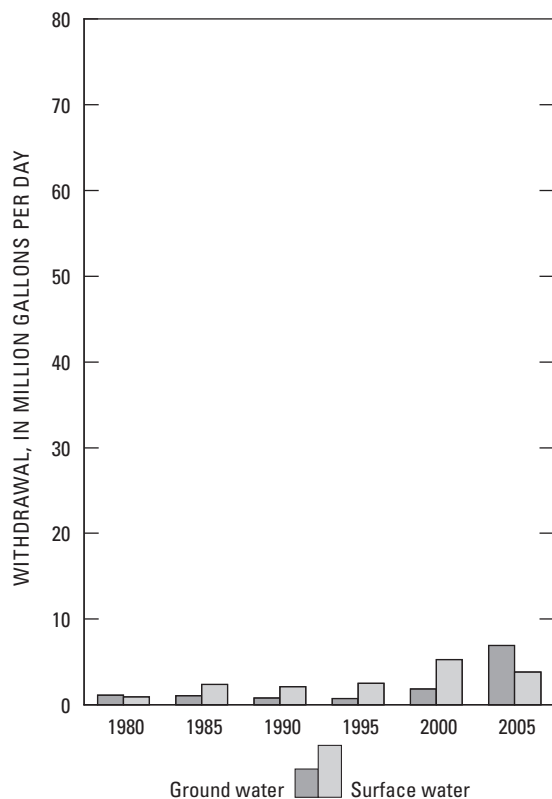
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.10	1.13	5.78	0.00	0.00	0.00	7.01
Surface Water	3.12	0.00	0.00	0.17	0.64	0.00	3.93
TOTALS	3.22	1.13	5.78	0.17	0.64	0.00	10.94

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
East Ellijay	0.05	0.00
Ellijay–Gilmer County Water System	0.00	3.12

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	5.53	0.00

Base modified from U.S. Geological Survey
1:100,000-scale digital data**WITHDRAWAL LOCATION
FOR MAJOR USER**

△ Surface water

GLASCOCK COUNTY

Population: 2,705

Population served by public supply: 1,090

Acres irrigated: 110

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

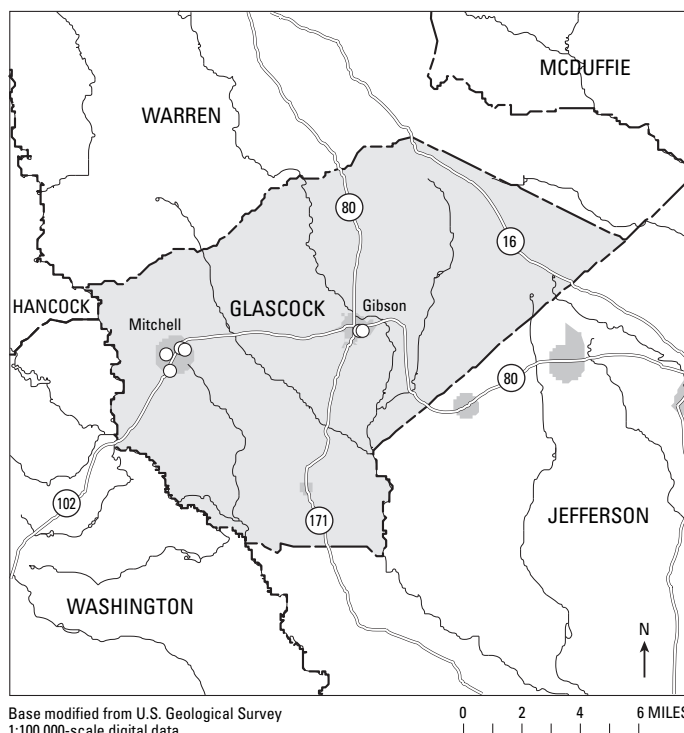
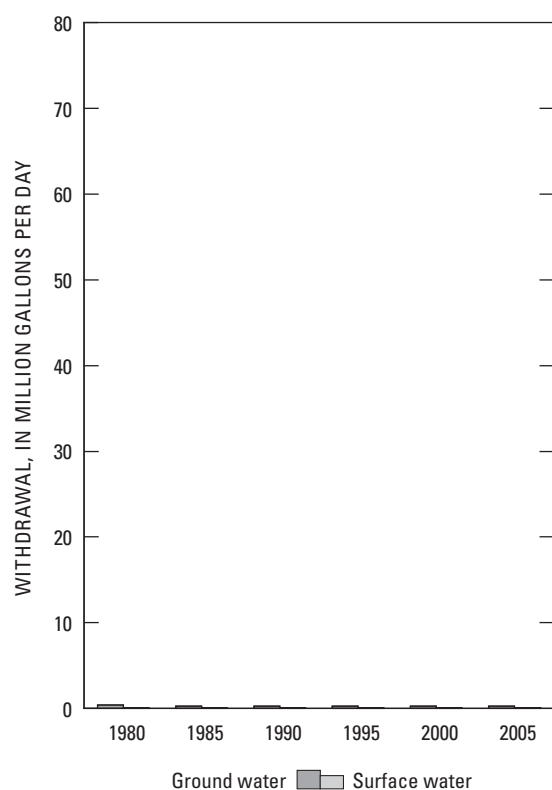
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.08	0.12	0.05	0.00	0.01	0.00	0.26
Surface Water	0.00	0.00	0.00	0.04	0.03	0.00	0.07
TOTALS	0.08	0.12	0.05	0.04	0.04	0.00	0.33

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Gibson	0.06	0.00
Town of Mitchell	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.05	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

GLYNN COUNTY

Population: 71,874

Population served by public supply: 62,600

Acres irrigated: 1,290

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

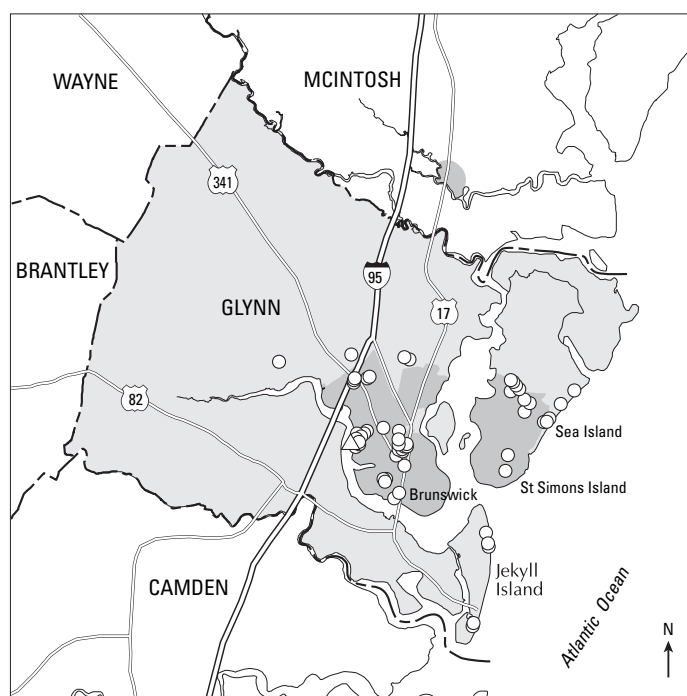
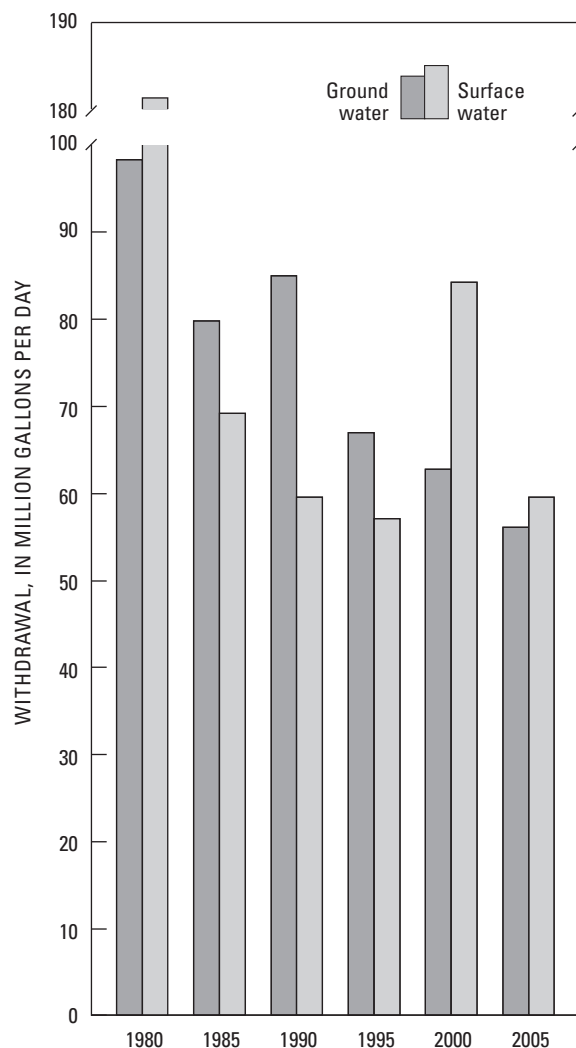
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	9.85	4.37	41.93	0.00	0.00	0.02	56.17
Surface Water	0.00	0.00	22.58	0.00	0.04	36.94	59.56
TOTALS	9.85	4.37	64.51	0.00	0.04	36.96	115.73

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Brunswick	4.57	0.00
Jekyll Island Water Authority	1.06	0.00
Glynn County Board of Commissioners— St. Simons Island W&S	2.76	0.00
Sea Island Services	0.88	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.34	0.00
26 - Paper	33.11	22.58
28 - Chemicals	8.28	0.00
32 - Stone, clay	0.17	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

**WITHDRAWAL LOCATION
FOR MAJOR USER**

- Ground water
- △ Surface water

GORDON COUNTY

Population: 50,279

Population served by public supply: 37,940

Acres irrigated: 2,020

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

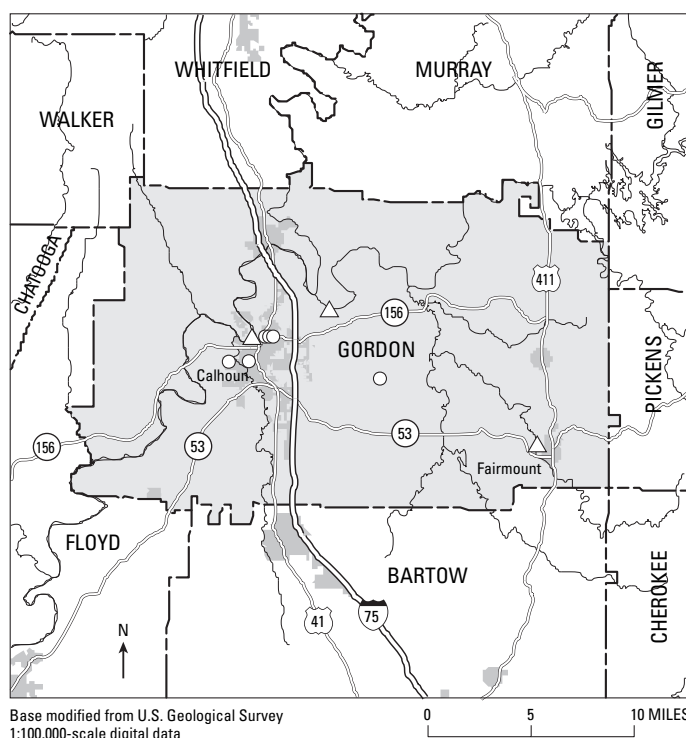
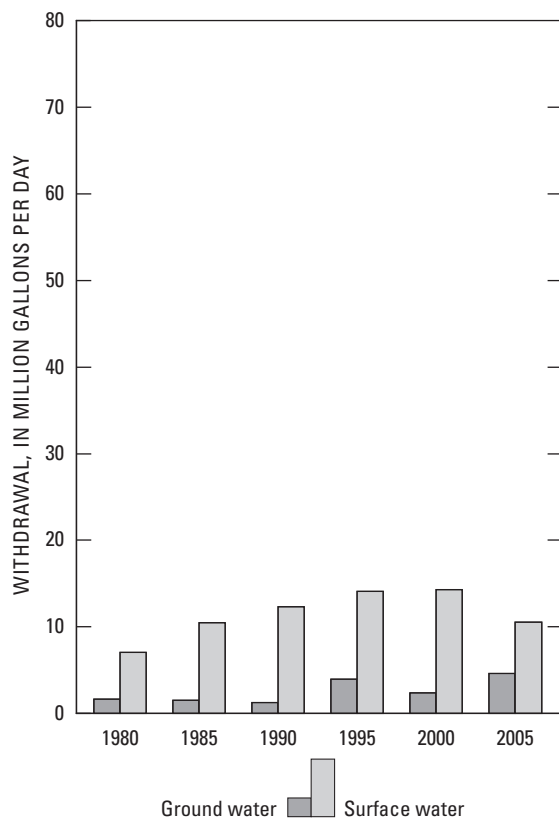
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.55	0.93	0.09	0.00	0.02	0.00	4.59
Surface Water	9.16	0.00	0.00	0.73	0.63	0.00	10.52
TOTALS	12.71	0.93	0.09	0.73	0.65	0.00	15.11

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Calhoun	3.55	9.10
City of Fairmount	0.00	0.06

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.09	0.00



GRADY COUNTY

Population: 24,466

Population served by public supply: 12,970

Acres irrigated: 15,130

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

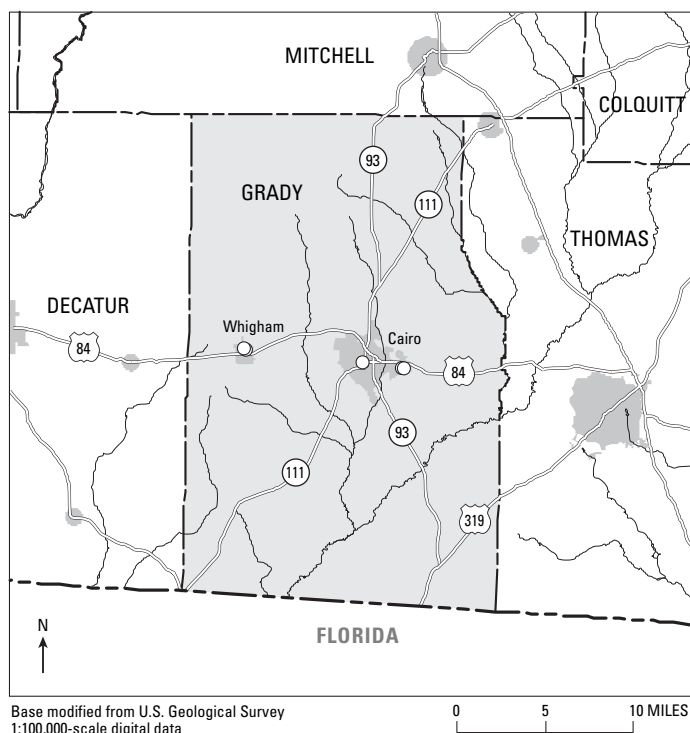
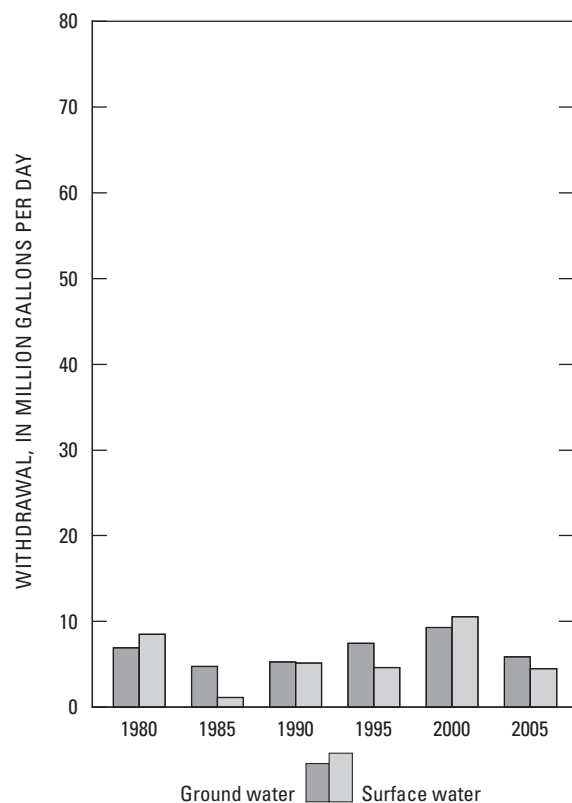
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.85	0.86	0.35	2.78	0.04	0.00	5.88
Surface Water	0.00	0.00	0.00	4.30	0.18	0.00	4.48
TOTALS	1.85	0.86	0.35	7.08	0.22	0.00	10.36

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cairo	1.70	0.00
City of Whigham	0.08	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

GREENE COUNTY

Population: 15,693

Population served by public supply: 11,870

Acres irrigated: 860

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

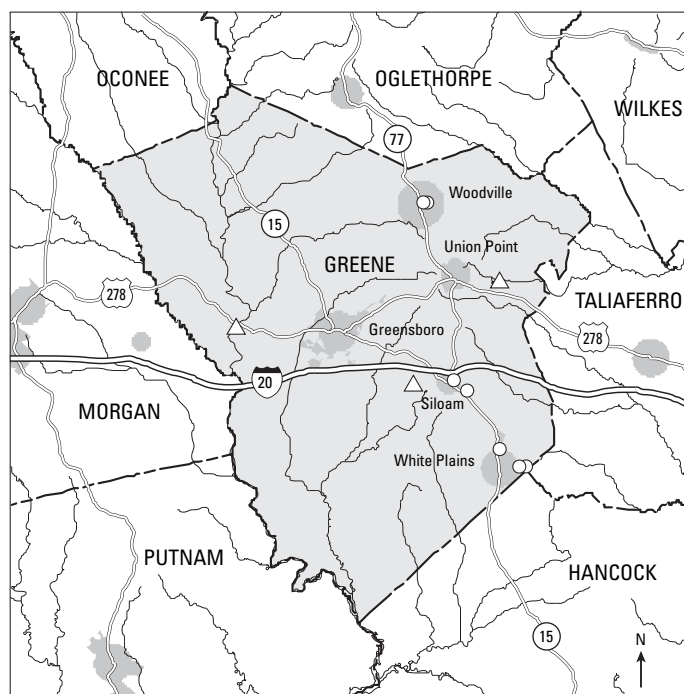
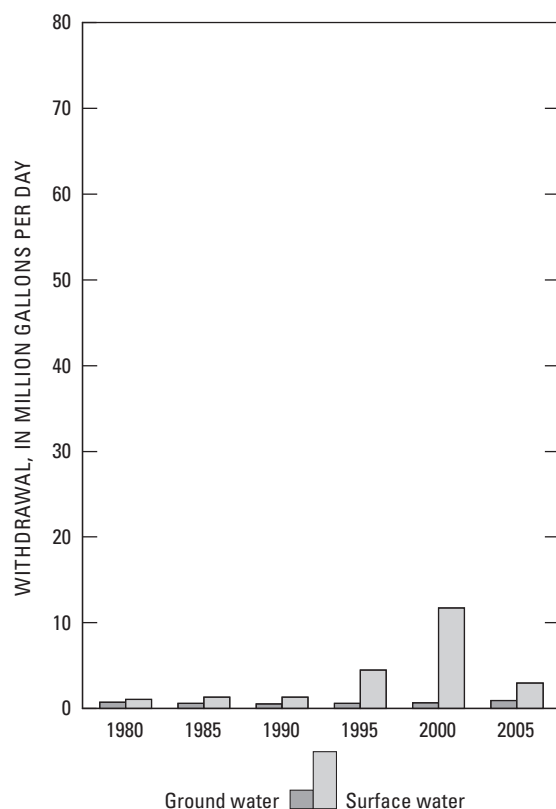
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.55	0.29	0.11	0.00	0.00	0.00	0.95
Surface Water	0.90	0.00	0.05	1.74	0.27	0.00	2.96
TOTALS	1.45	0.29	0.16	1.74	0.27	0.00	3.91

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Greensboro	0.00	0.74
Town of Siloam	0.03	0.00
City of Union Point	0.00	0.16
Town of White Plains	0.02	0.00
City of Woodville	0.03	0.00
Piedmont Water Resources	0.30	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.00	0.05



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

GWINNETT COUNTY

Population: 726,273

Population served by public supply: 726,270

Acres irrigated: 3,020

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

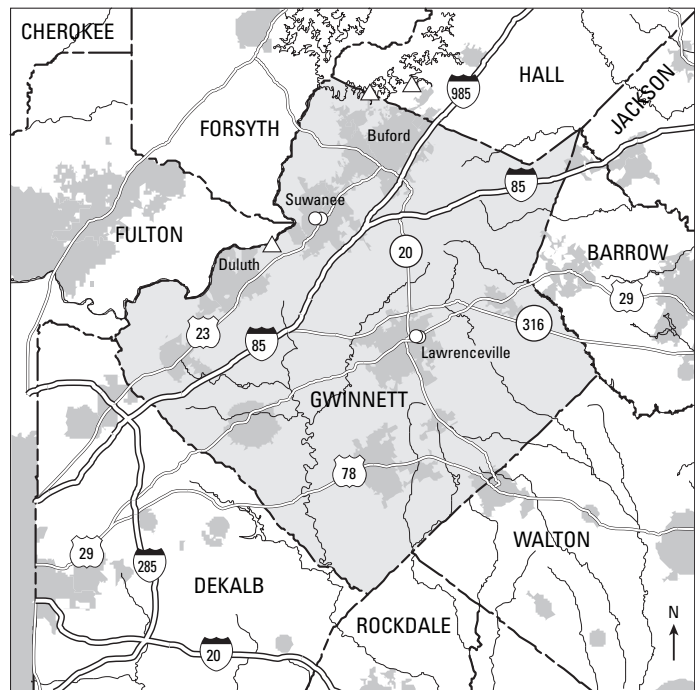
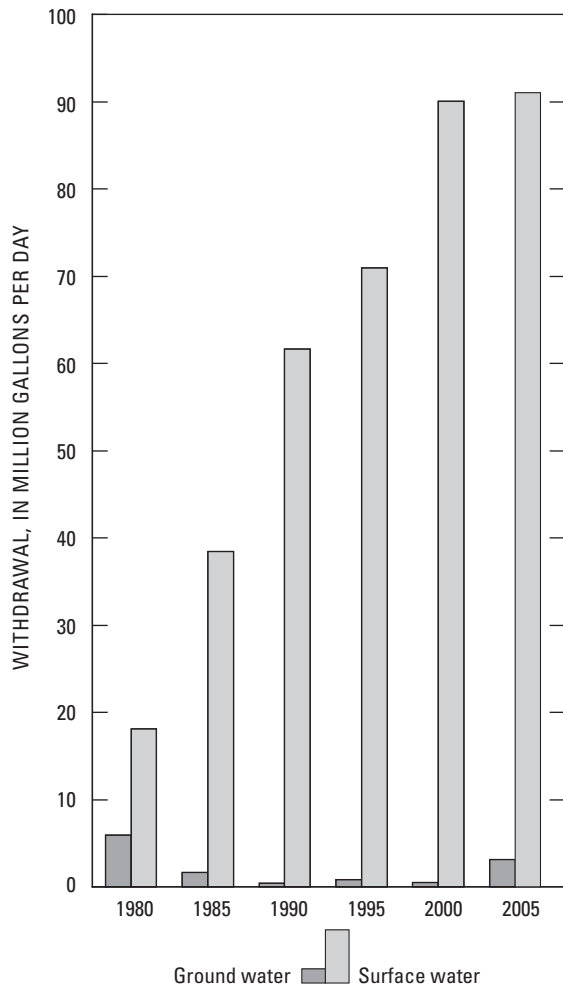
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.38	0.00	1.19	1.95	0.01	0.00	3.53
Surface Water	87.52	0.00	0.02	3.09	0.04	0.00	90.67
TOTALS	87.90	0.00	1.21	5.04	0.05	0.00	94.20

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Grayson Water System	0.10	0.00
City of Suwannee	0.04	0.00
City of Lawrenceville	0.14	0.00
City of Duluth	0.00	1.84
City of Norcross	0.00	0.36
City of Buford	0.00	1.44
Gwinnett W&S Authority (water source located in Hall County)	0.00	83.56

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



HABERSHAM COUNTY

Population: 39,603

Population served by public supply: 22,080

Acres irrigated: 310

Hydroelectric use (Mgal/d): 1,038.63



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

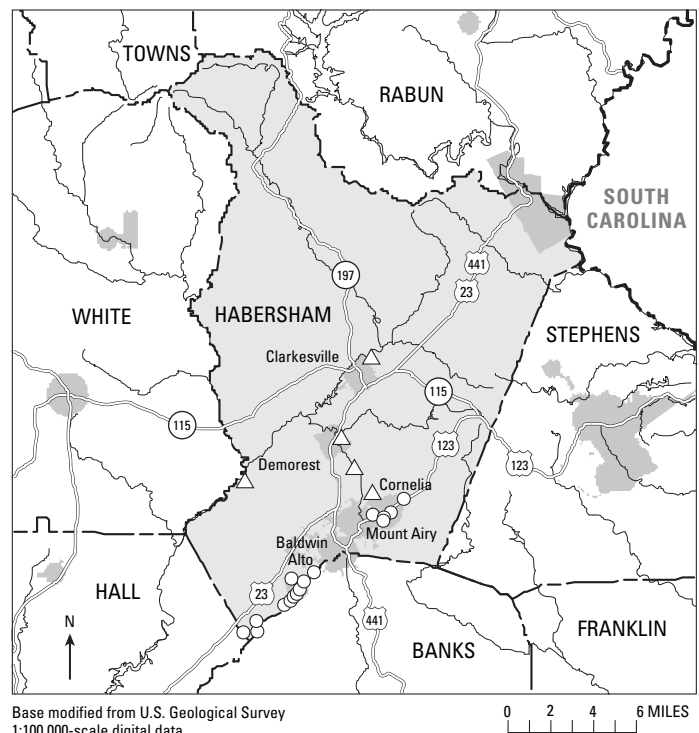
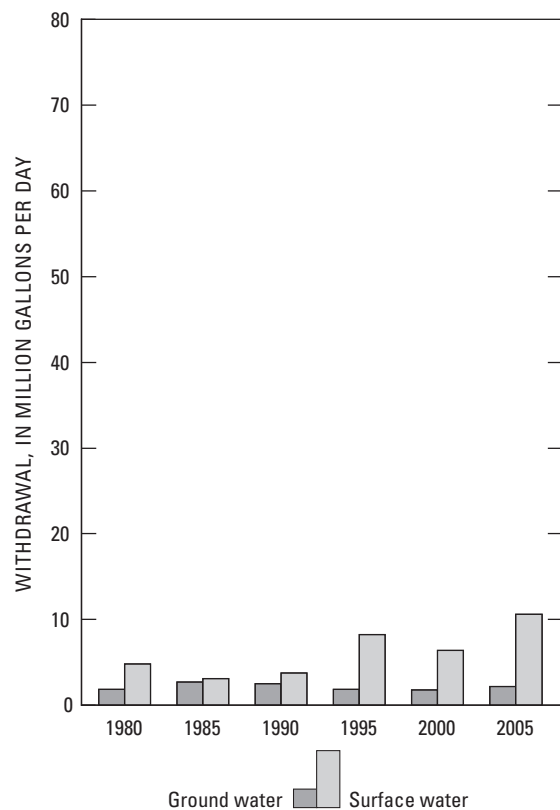
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.75	1.32	0.15	0.00	0.02	0.00	2.24
Surface Water	5.15	0.00	0.00	0.50	5.31	0.00	10.96
TOTALS	5.90	1.32	0.15	0.50	5.33	0.00	13.20

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Alto	0.37	0.00
Town of Baldwin	0.00	2.05
City of Clarkesville	0.00	0.63
City of Cornelia	0.00	2.47
City of Demorest	0.25	0.00
Town of Mount Airy	0.05	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

HALL COUNTY

Population: 165,771

Population served by public supply: 125,790

Acres irrigated: 910

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

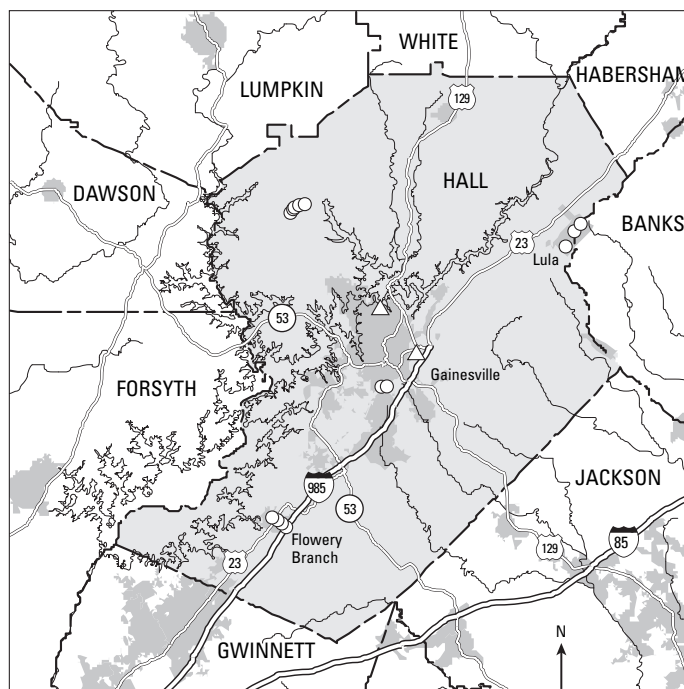
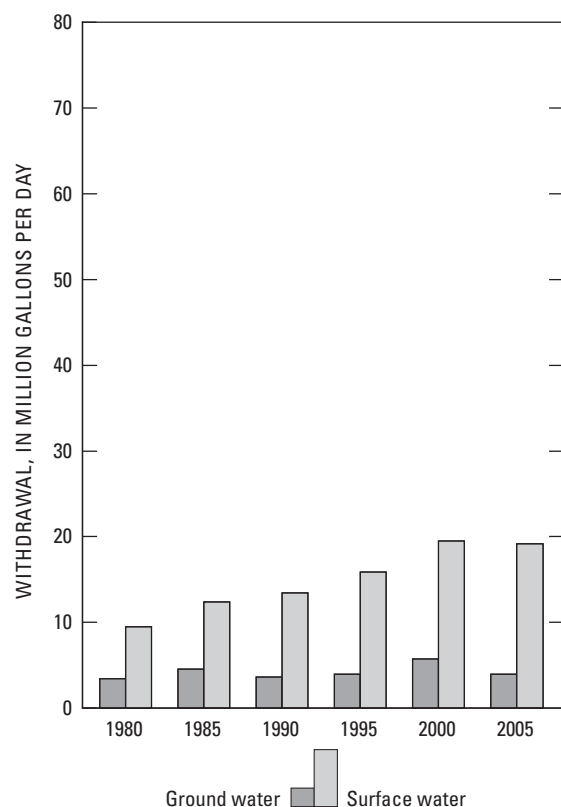
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.51	2.18	1.40	0.09	0.00	0.00	4.18
Surface Water	17.86	0.11	0.08	0.68	0.80	0.00	19.53
TOTALS	18.37	2.29	1.48	0.77	0.80	0.00	23.71

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Flowery Branch	0.20	0.00
City of Gainesville	0.00	17.86
City of Lula	0.16	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.65	0.00
22 - Textiles	0.00	0.07



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1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

HANCOCK COUNTY

Population: 9,643

Population served by public supply: 6,110

Acres irrigated: 40

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

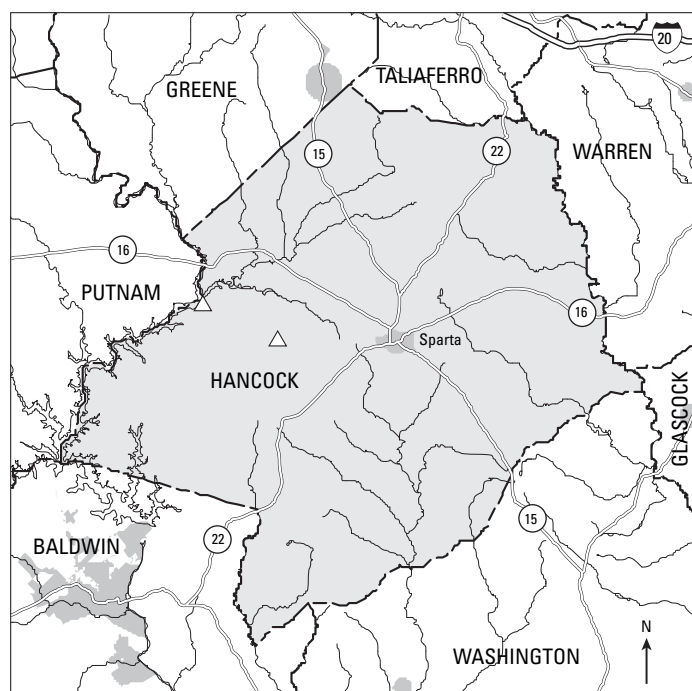
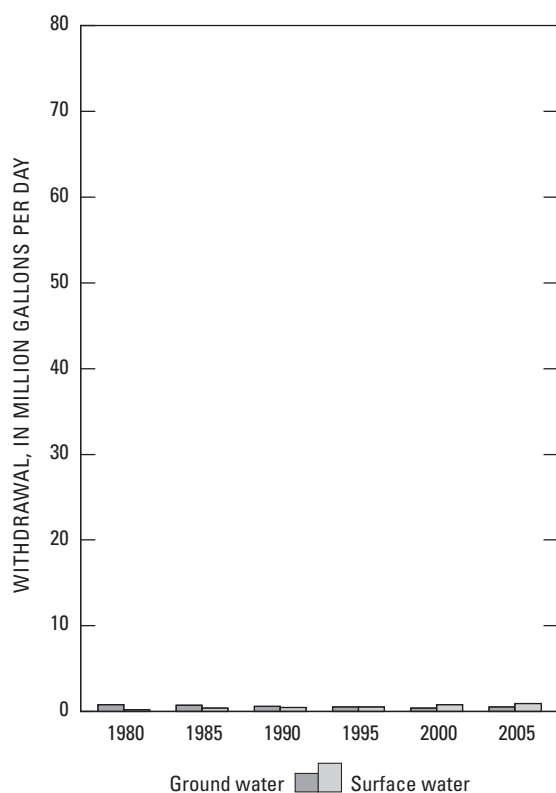
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.17	0.26	0.12	0.00	0.00	0.00	0.55
Surface Water	0.85	0.00	0.00	0.04	0.04	0.00	0.93
TOTALS	1.02	0.26	0.12	0.04	0.04	0.00	1.48

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Devereux Water System	0.02	0.00
City of Sparta	0.00	0.85

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



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WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

HARALSON COUNTY

Population: 28,338

Population served by public supply: 28,060

Acres irrigated: 150

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

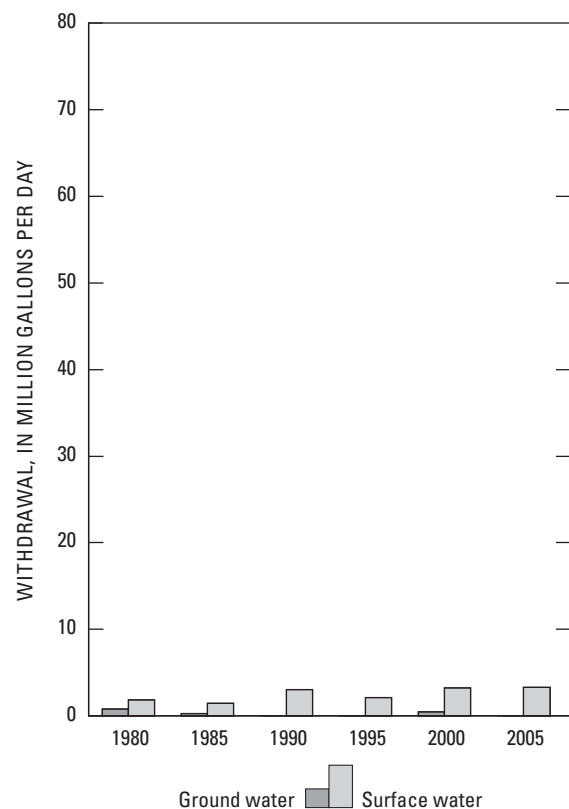
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.02	0.00	0.00	0.01	0.00	0.03
Surface Water	2.36	0.00	0.00	0.85	0.12	0.00	3.33
TOTALS	2.36	0.02	0.00	0.85	0.13	0.00	3.36

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Bremen	0.00	0.32
Haralson County Water Authority	0.00	2.05

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

HARRIS COUNTY

Population: 27,779

Population served by public supply: 17,160

Acres irrigated: 640

Hydroelectric use (Mgal/d): 7,375.31



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

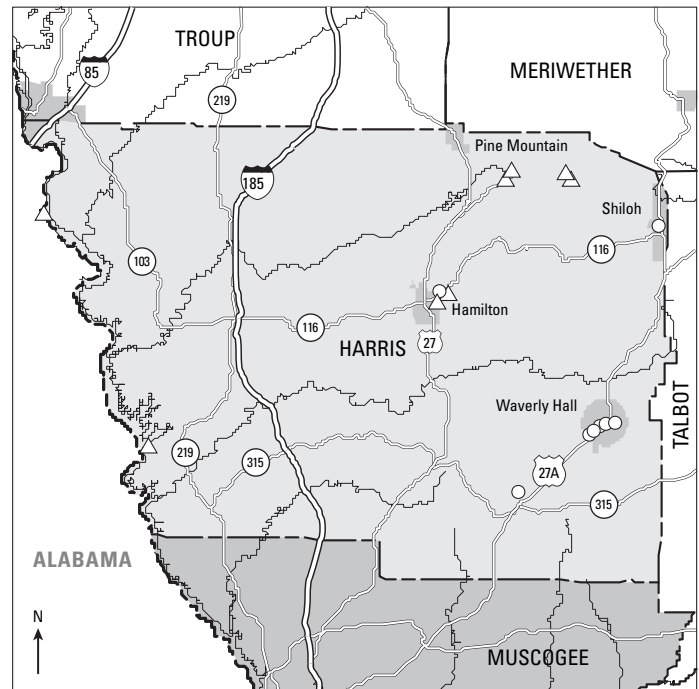
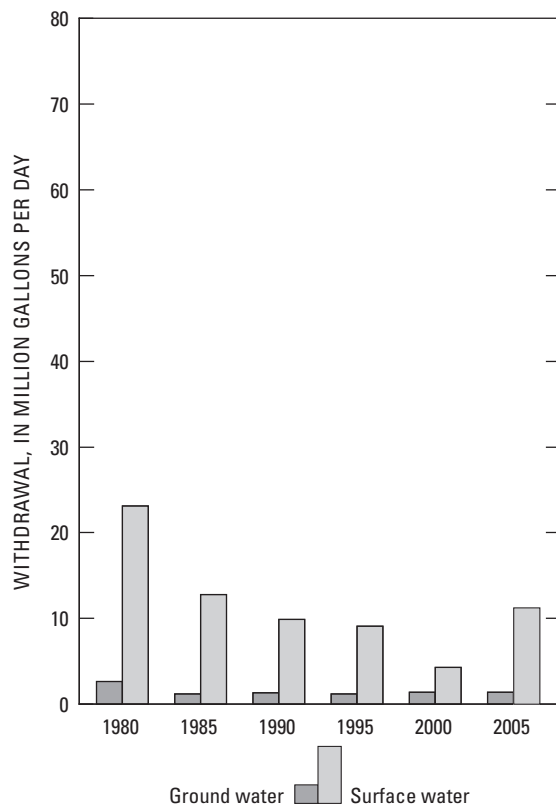
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.27	0.87	0.24	0.11	0.00	0.00	1.49
Surface Water	7.11	0.00	2.16	0.63	0.07	1.20	11.17
TOTALS	7.38	0.87	2.40	0.74	0.07	1.20	12.66

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hamilton	0.08	0.00
Harris County Waterworks	0.00	2.31
Town of Pine Mountain	0.00	0.09
City of Shiloh	0.03	0.00
Town of Waverly Hall	0.06	0.00
Chat Valley Water Supply	0.00	4.71

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



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0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

HART COUNTY

Population: 24,036

Population served by public supply: 8,250

Acres irrigated: 800

Hydroelectric use (Mgal/d): 3,267.35



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

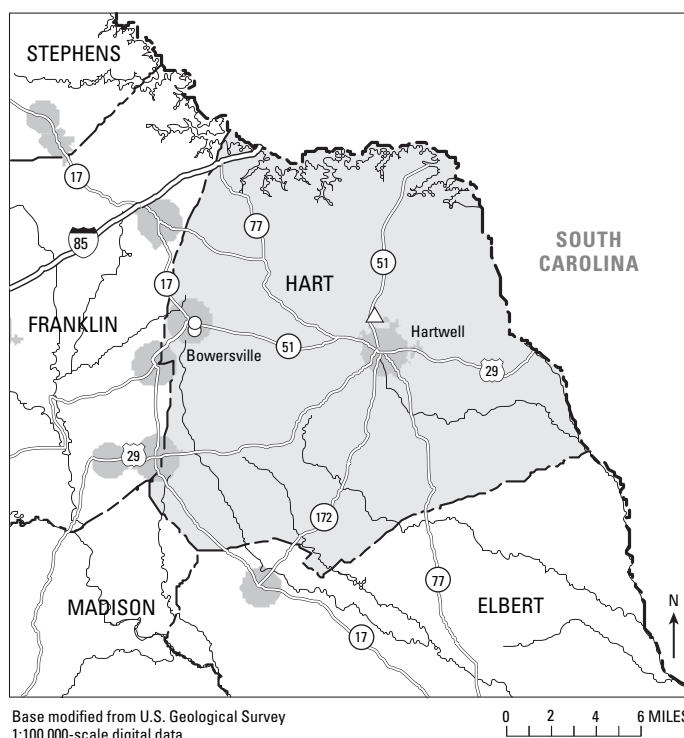
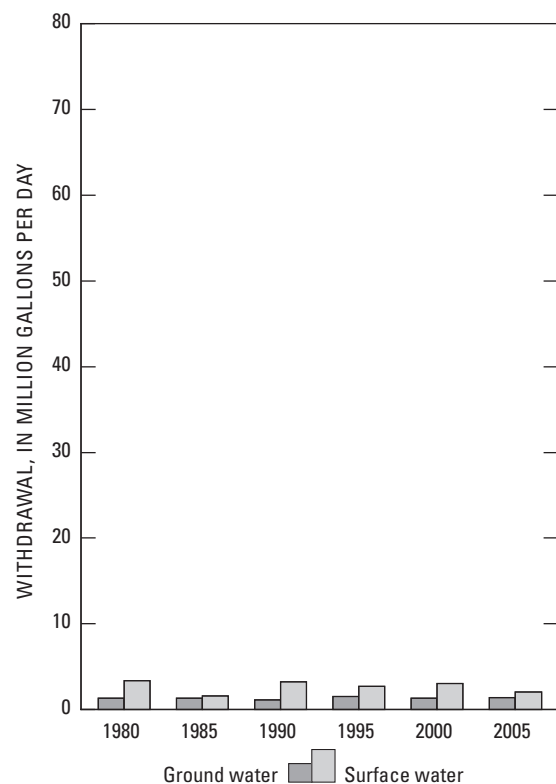
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.12	1.18	0.11	0.00	0.00	0.00	1.41
Surface Water	1.19	0.00	0.00	0.53	0.65	0.00	2.37
TOTALS	1.31	1.18	0.11	0.53	0.65	0.00	3.78

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Bowersville	0.03	0.00
City of Hartwell	0.00	1.19

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.11	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

HEARD COUNTY

Population: 11,346

Population served by public supply: 8,220

Acres irrigated: 0

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

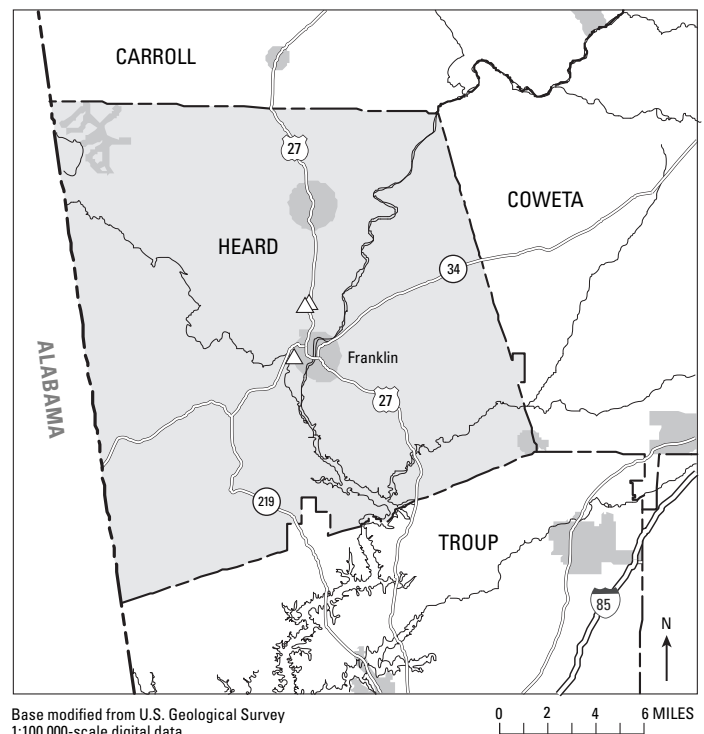
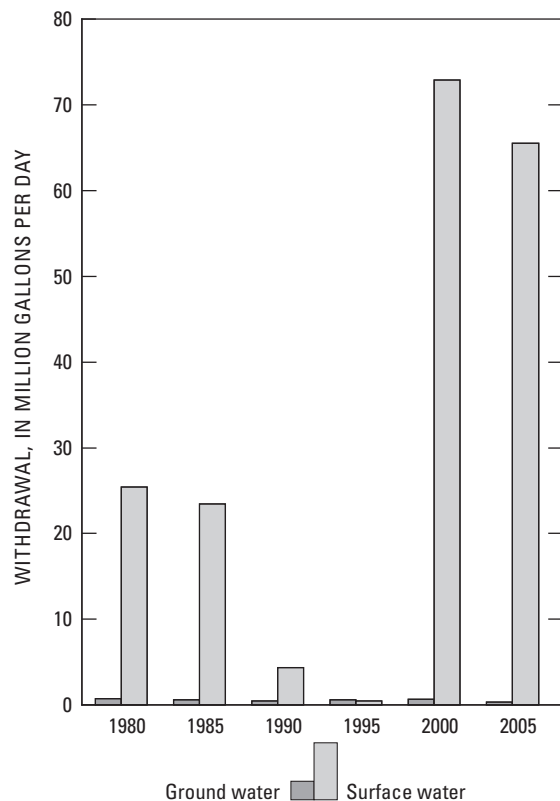
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.08	0.23	0.09	0.00	0.00	0.00	0.40
Surface Water	0.98	0.00	0.00	0.00	0.18	64.33	65.49
TOTALS	1.06	0.23	0.09	0.00	0.18	64.33	65.89

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Ephesus Water System	0.08	0.00
Franklin/Heard County Water Authority	0.00	0.98

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

HENRY COUNTY

Population: 167,848

Population served by public supply: 157,780

Acres irrigated: 300

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

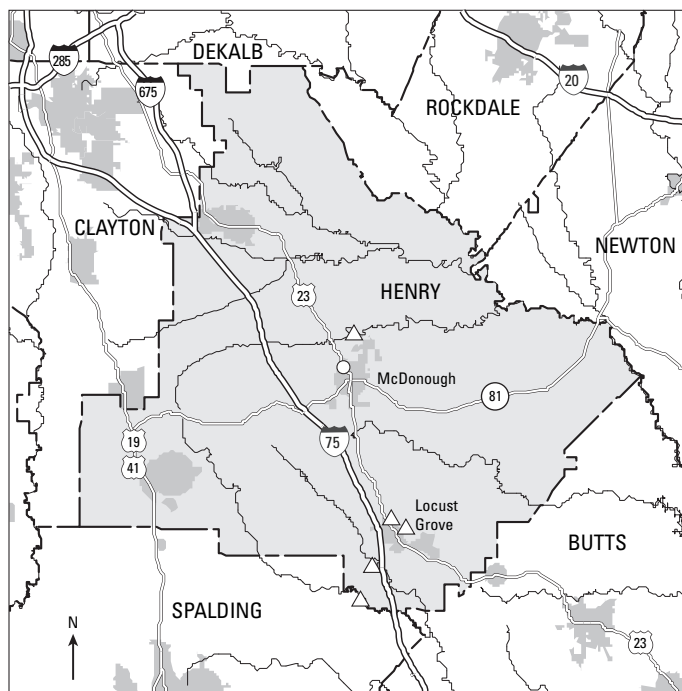
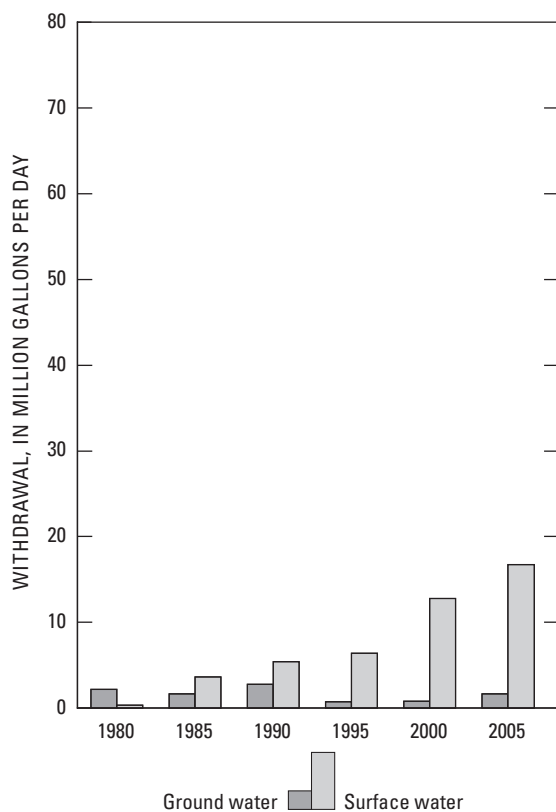
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.43	0.76	0.62	0.00	0.01	0.00	1.82
Surface Water	16.48 ^a	0.00	0.01	0.27	0.09	0.00	16.85
TOTALS	16.91	0.76	0.63	0.27	0.10	0.00	18.67

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hampton	0.11	0.00
Henry County W&S	0.00	15.21 ^a
City of Locust Grove	0.00	0.08
City of McDonough	0.02	1.18
City of Stockbridge	0.22	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

^a Water used in Henry County but 15.21 Mgal/d withdrawn from Butts County.Base modified from U.S. Geological Survey
1:100,000-scale digital dataWITHDRAWAL LOCATION
FOR MAJOR USER

- Ground water
- △ Surface water

HOUSTON COUNTY

Population: 126,163

Population served by public supply: 122,820

Acres irrigated: 11,510

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

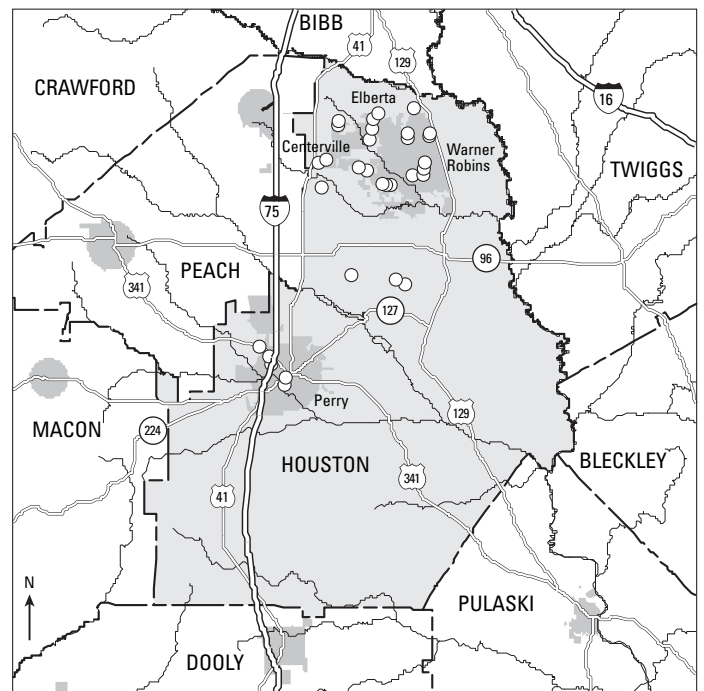
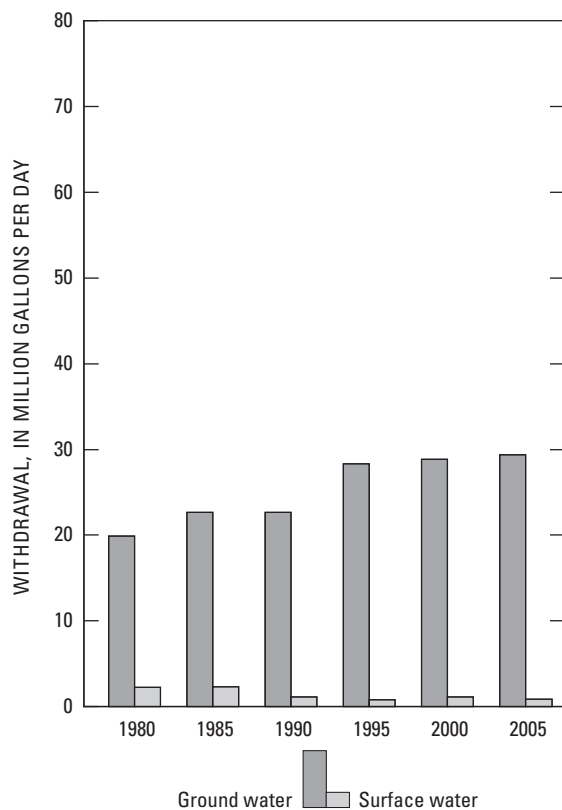
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	20.61	1.12	2.73	5.14	0.03	0.00	29.63
Surface Water	0.00	0.00	0.01	0.49	0.11	0.00	0.61
TOTALS	20.61	1.12	2.74	5.63	0.14	0.00	30.24

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Centerville	1.22	0.00
City of Elberta	0.35	0.00
Houston County Board of Commissioners	0.10	0.00
Houston County Board of Commissioners	7.92	0.00
Houston County Board of Commissioners	0.10	0.00
City of Perry	1.94	0.00
City of Warner Robbins	6.96	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	1.72	0.00
32 - Stone, clay	0.24	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

IRWIN COUNTY

Population: 10,093

Population served by public supply: 3,760

Acres irrigated: 38,460

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

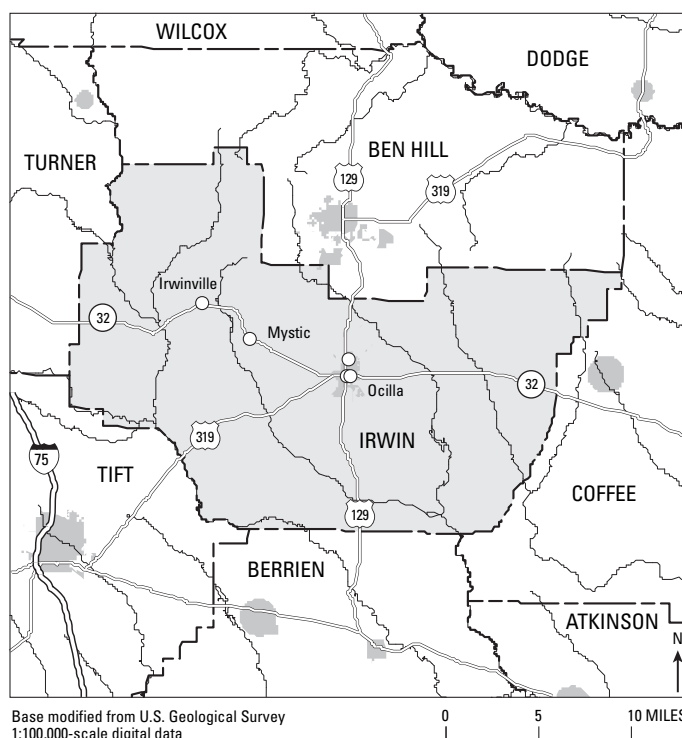
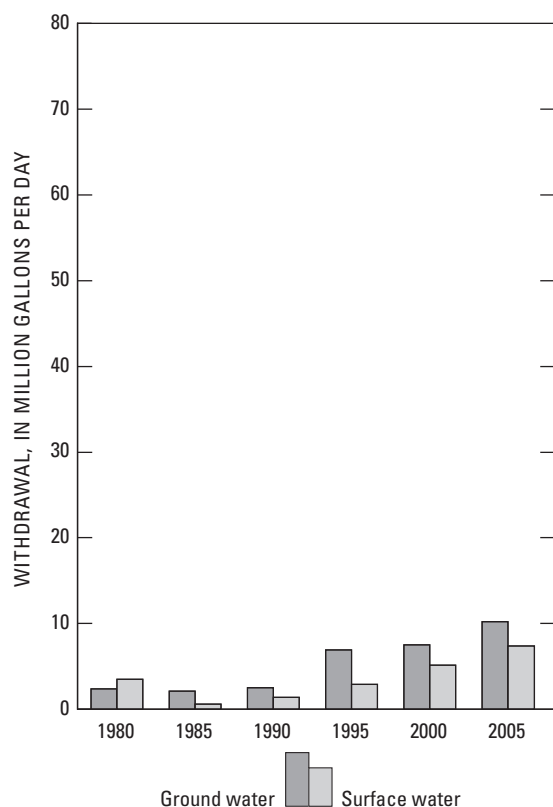
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.57	0.47	0.00	9.14	0.02	0.00	10.20
Surface Water	0.00	0.00	0.00	7.31	0.06	0.00	7.37
TOTALS	0.57	0.47	0.00	16.45	0.08	0.00	17.57

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Irwinville Waterworks, Inc.	0.01	0.00
City of Mystic	0.02	0.00
City of Ocilla	0.53	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

○ Ground water

JACKSON COUNTY

Population: 52,292

Population served by public supply: 49,610

Acres irrigated: 330

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

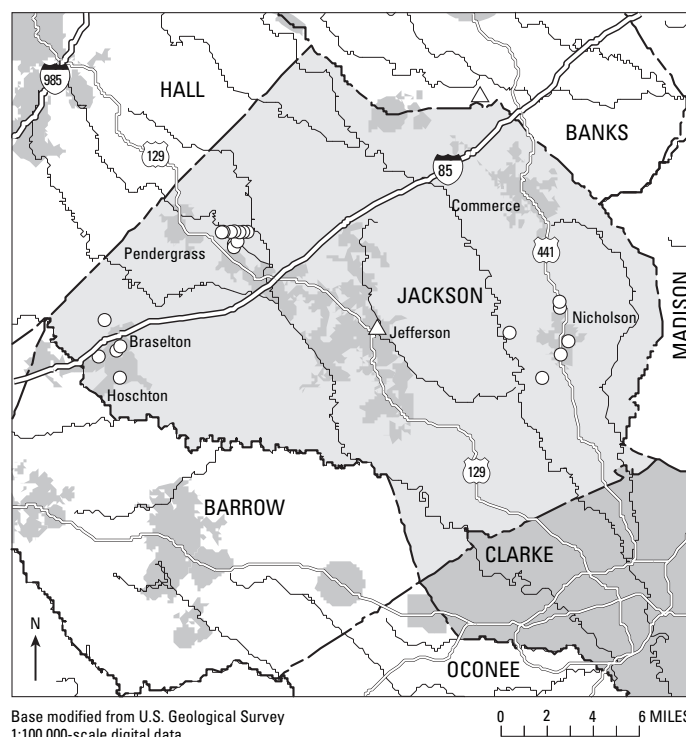
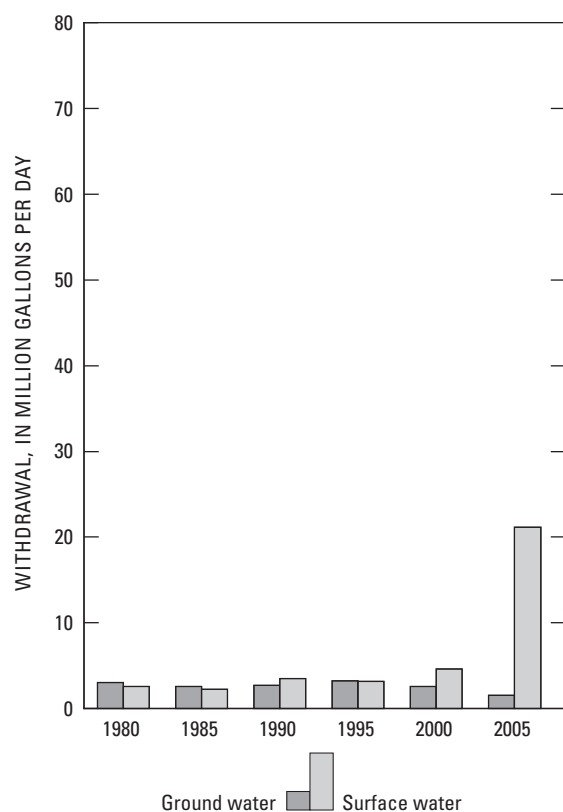
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.52	0.20	0.69	0.00	0.07	0.00	1.48
Surface Water	19.52	0.00	0.00	0.57	0.93	0.00	21.02
TOTALS	20.04	0.20	0.69	0.57	1.00	0.00	22.50

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Braselton	0.14	0.00
City of Hoschton	0.03	0.00
City of Jefferson	0.00	0.82
Nicholson Water Association	0.20	0.00
Upper Oconee Basin Water Authority	0.00	17.38
City of Commerce (water source located in Banks County)	0.00	1.32

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.51	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

JASPER COUNTY

Population: 13,147

Population served by public supply: 4,420

Acres irrigated: 150

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

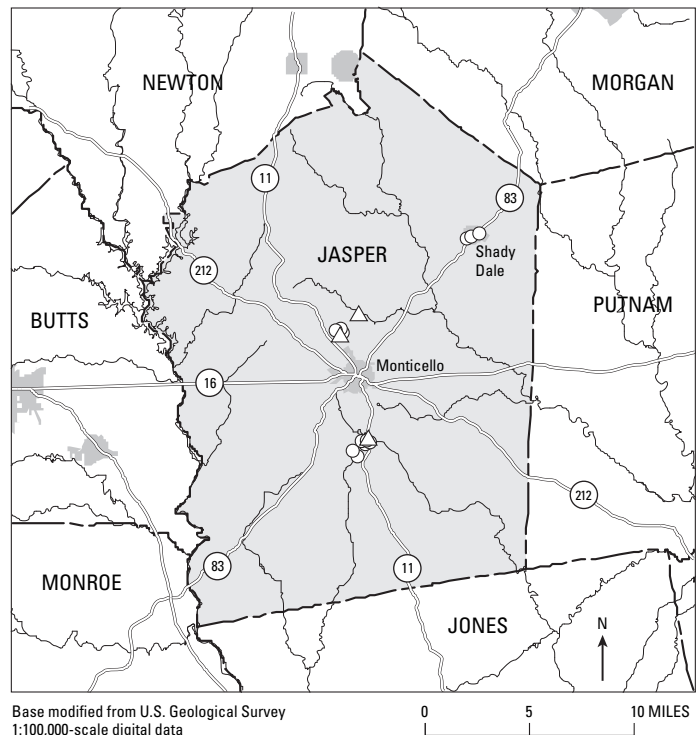
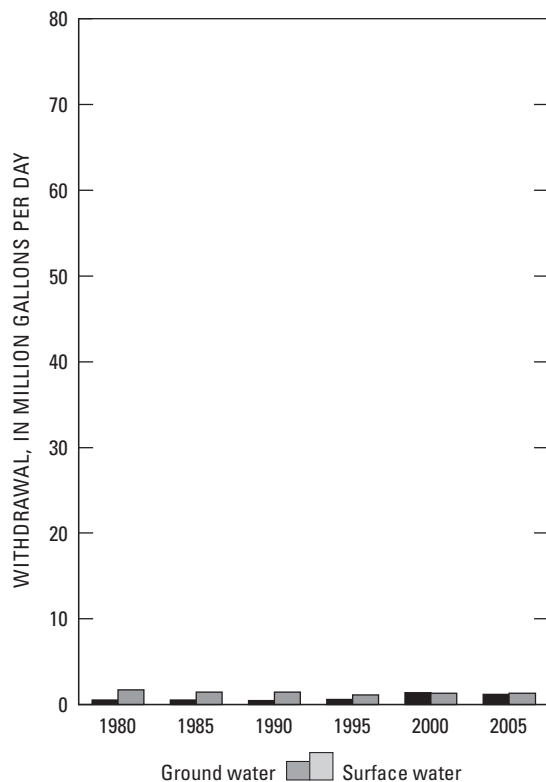
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.09	1.04	0.12	0.00	0.00	0.00	1.25
Surface Water	0.46	0.00	0.66	0.22	0.20	0.00	1.54
TOTALS	0.55	1.04	0.78	0.22	0.20	0.00	2.79

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Monticello	0.00	0.46
Town of Shady Dale	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.00	0.66



WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

△ Surface water

JEFF DAVIS COUNTY

Population: 13,083

Population served by public supply: 6,240

Acres irrigated: 13,180

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

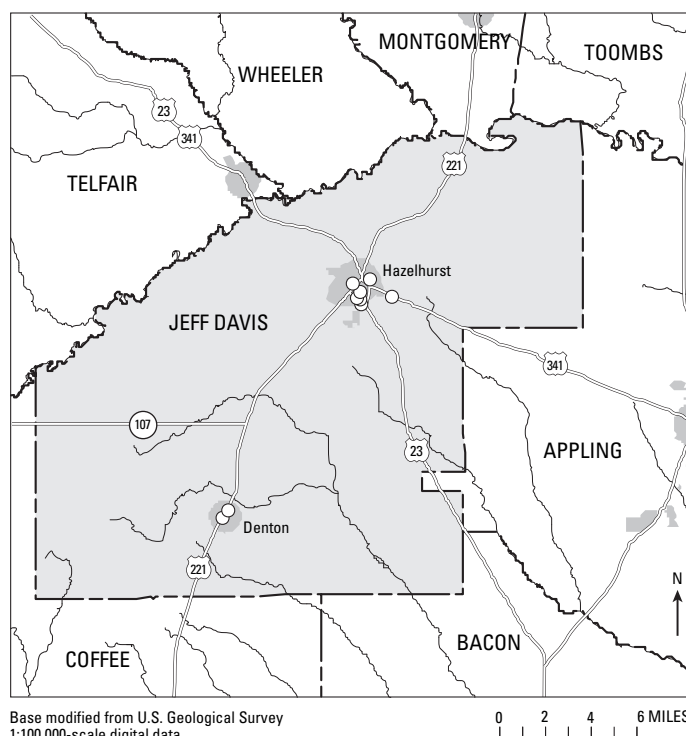
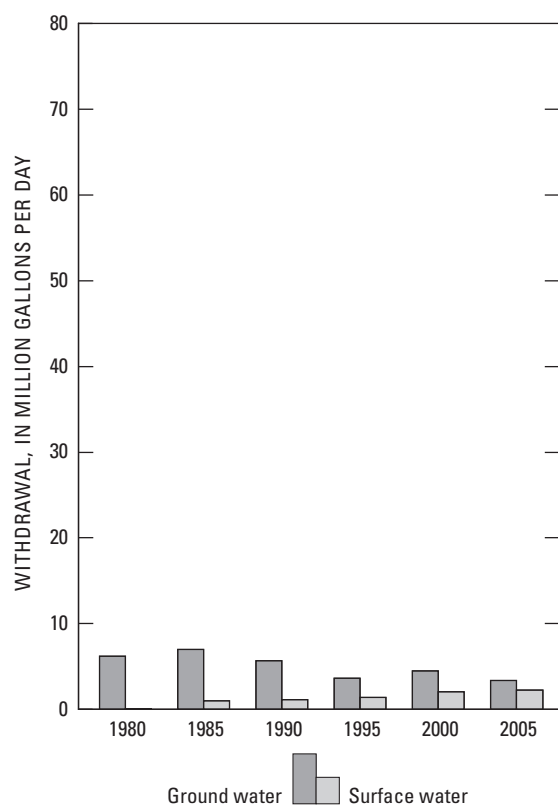
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.44	0.51	0.33	1.98	0.09	0.00	3.35
Surface Water	0.00	0.00	0.00	2.10	0.13	0.00	2.23
TOTALS	0.44	0.51	0.33	4.08	0.22	0.00	5.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Denton	0.03	0.00
City of Hazelhurst	0.40	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.33	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

JEFFERSON COUNTY

Population: 16,926

Population served by public supply: 8,950

Acres irrigated: 16,920

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

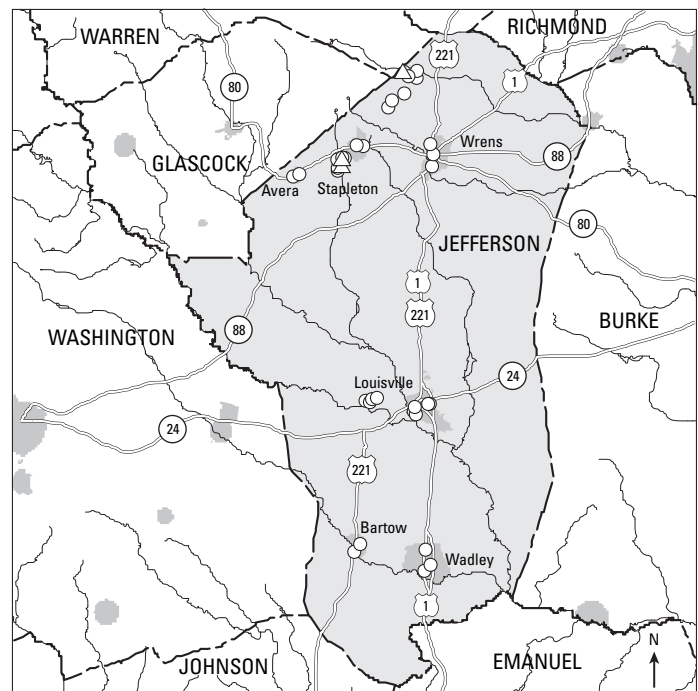
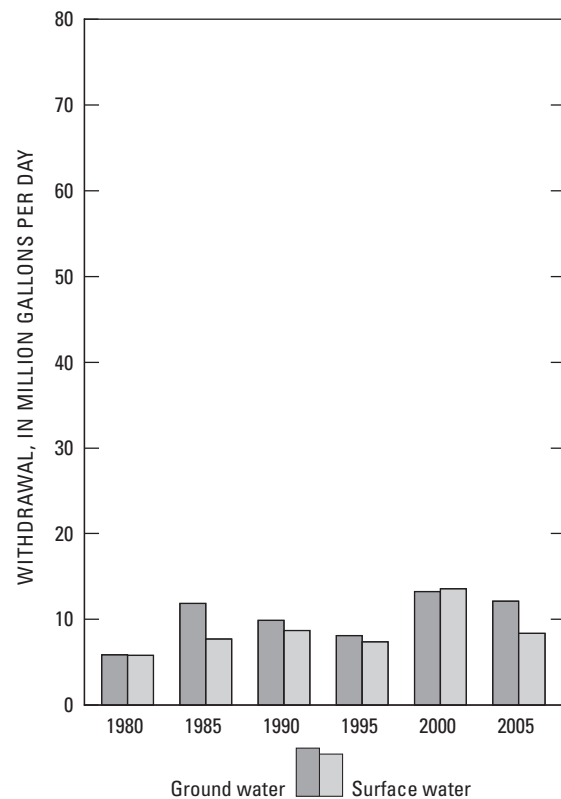
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.51	0.60	4.22	4.67	1.17	0.00	12.17
Surface Water	0.00	0.00	3.36	4.73	0.26	0.00	8.35
TOTALS	1.51	0.60	7.58	9.40	1.43	0.00	20.52

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Avera	0.02	0.00
Town of Bartow	0.04	0.00
City of Louisville	0.76	0.00
Town of Stapleton	0.04	0.00
City of Wadley	0.20	0.00
City of Wrens	0.45	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	4.07	3.36



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 5 10 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

△ Surface water

JENKINS COUNTY

Population: 8,729

Population served by public supply: 4,150

Acres irrigated: 10,420

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

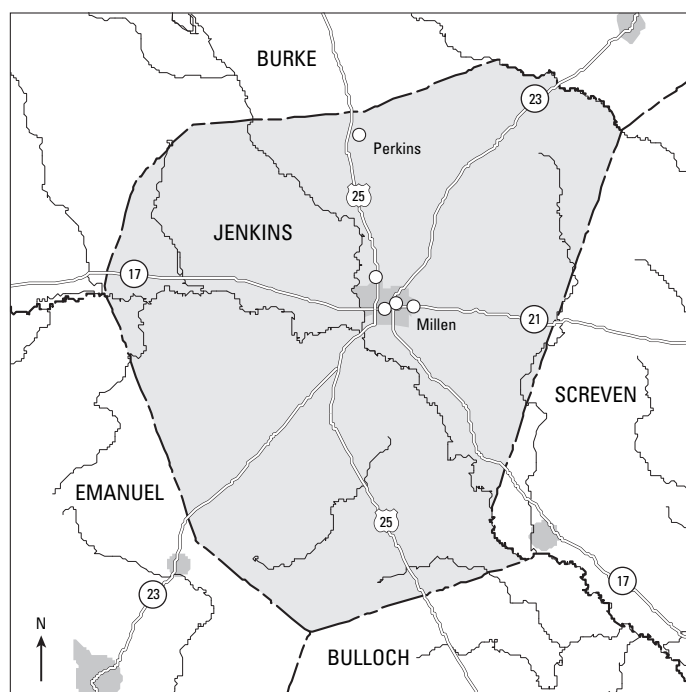
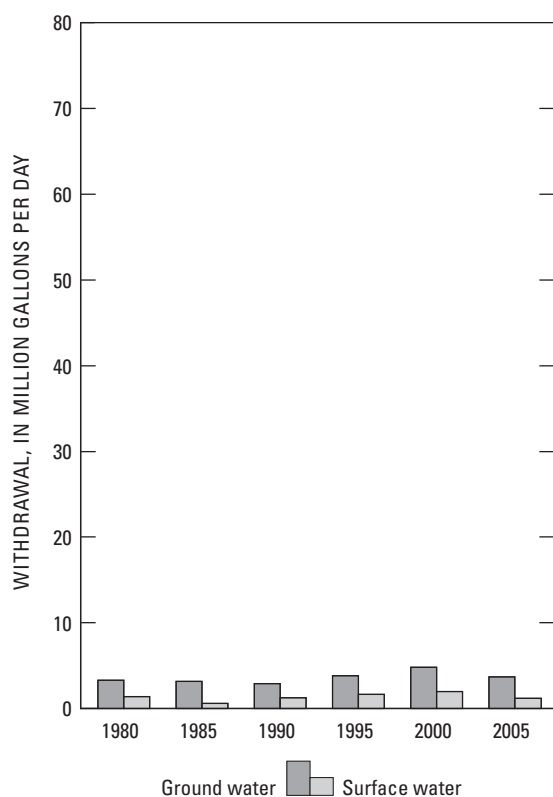
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.42	0.34	0.00	2.84	0.07	0.00	3.67
Surface Water	0.00	0.00	0.00	1.11	0.11	0.00	1.22
TOTALS	0.42	0.34	0.00	3.95	0.18	0.00	4.89

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Millen	0.42	0.00
Perkins Water Authority	0.01	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

JOHNSON COUNTY

Population: 9,538

Population served by public supply: 2,930

Acres irrigated: 4,010

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

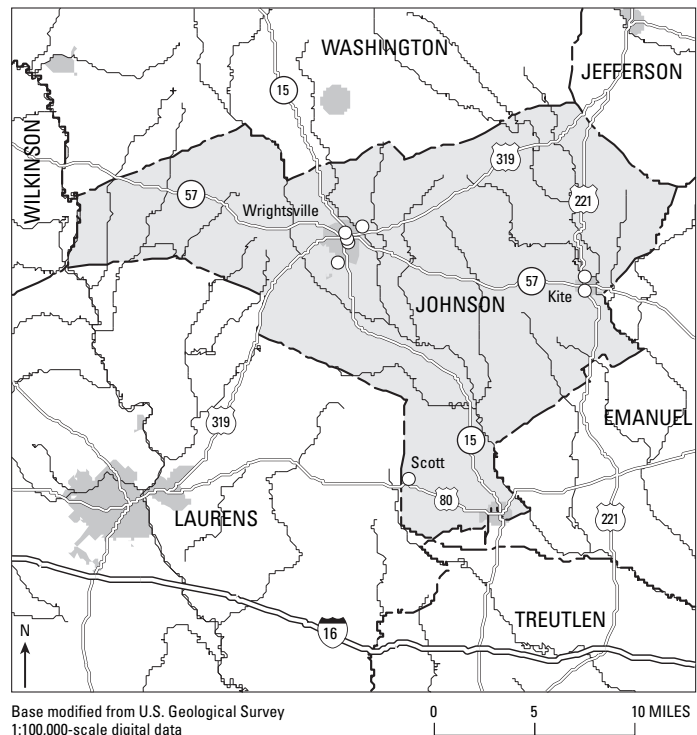
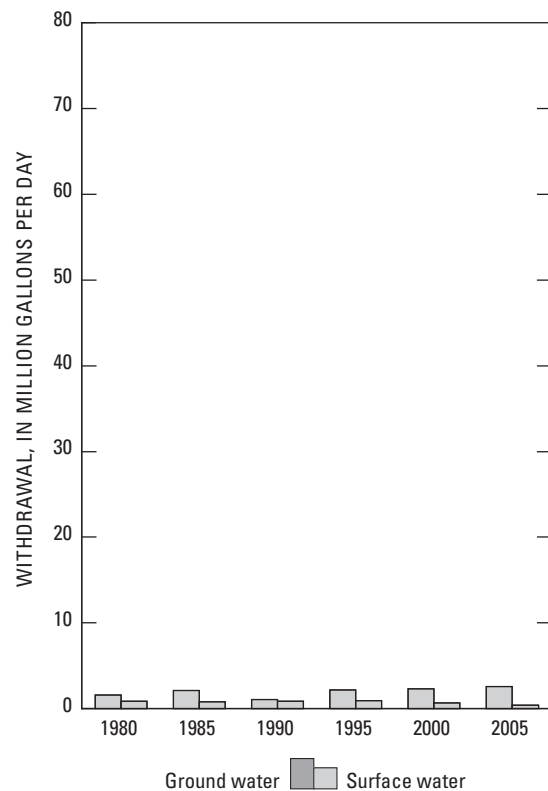
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.52	0.50	0.00	1.37	0.22	0.00	2.61
Surface Water	0.00	0.00	0.00	0.37	0.06	0.00	0.43
TOTALS	0.52	0.50	0.00	1.74	0.28	0.00	3.04

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Kite	0.02	0.00
Scott Water & Sewer Authority	0.02	0.00
City of Wrightsville	0.49	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION
FOR MAJOR USER**

- Ground water

JONES COUNTY

Population: 26,836

Population served by public supply: 12,440

Acres irrigated: 270

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

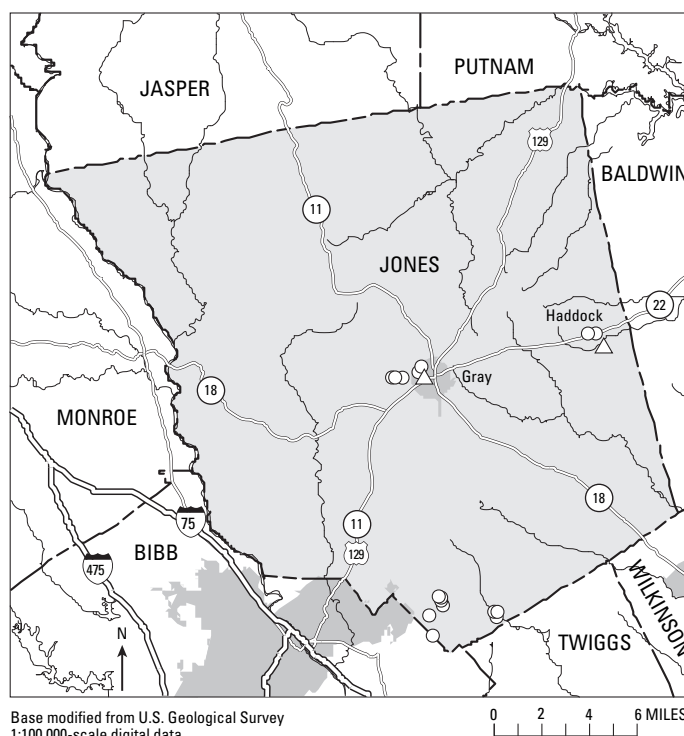
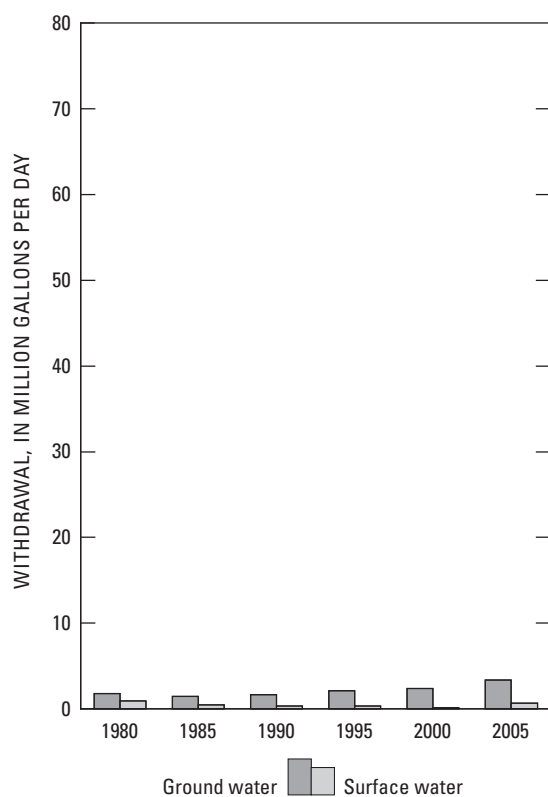
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.12	1.08	1.68	0.02	0.00	0.00	3.90
Surface Water	0.00	0.00	0.02	0.23	0.10	0.00	0.35
TOTALS	1.12	1.08	1.70	0.25	0.10	0.00	4.25

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Gray	0.51	0.00
Haddock Water Commission	0.06	0.00
Jones County Water Commission	0.52	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

LAMAR COUNTY

Population: 16,378

Population served by public supply: 7,250

Acres irrigated: 1,470

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

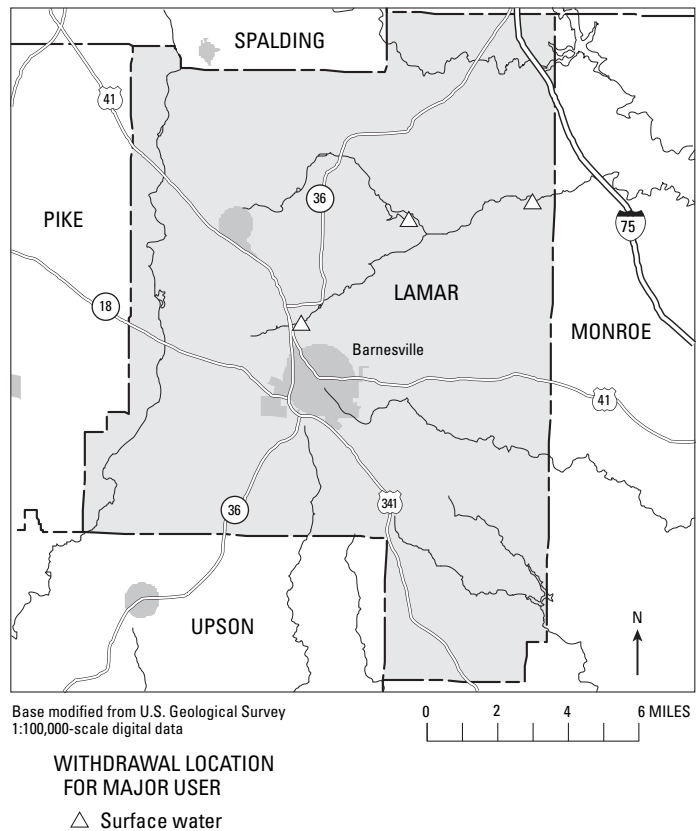
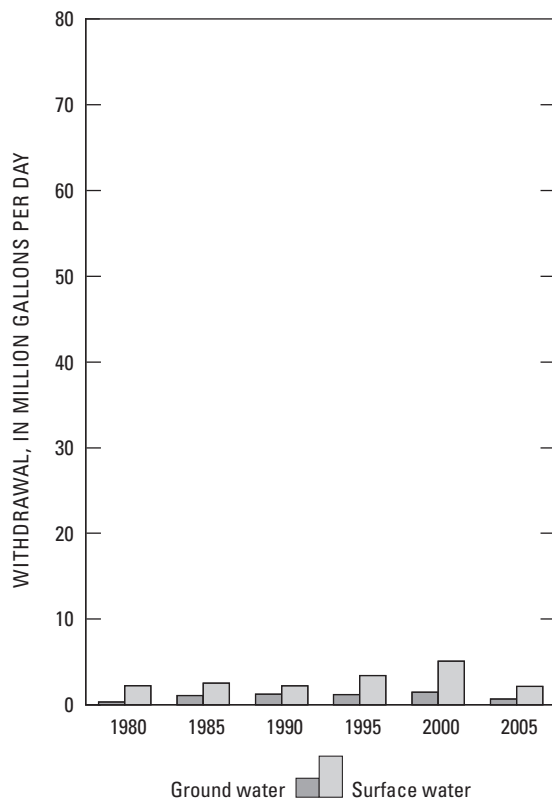
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.68	0.00	0.04	0.00	0.00	0.72
Surface Water	1.31	0.00	0.00	0.69	0.18	0.00	2.18
TOTALS	1.31	0.68	0.00	0.73	0.18	0.00	2.90

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Barnesville	0.00	1.31

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



LANIER COUNTY

Population: 7,553

Population served by public supply: 2,940

Acres irrigated: 3,100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

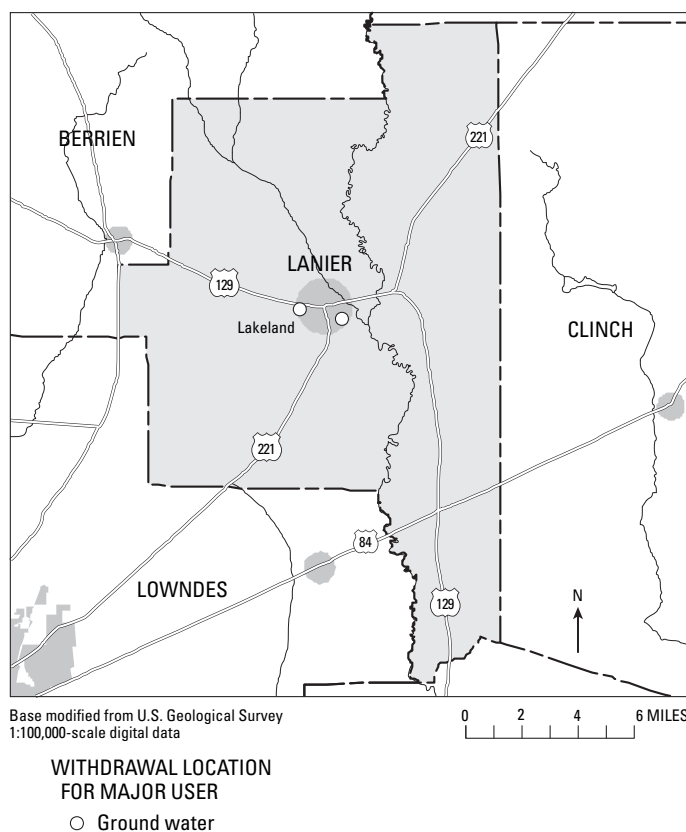
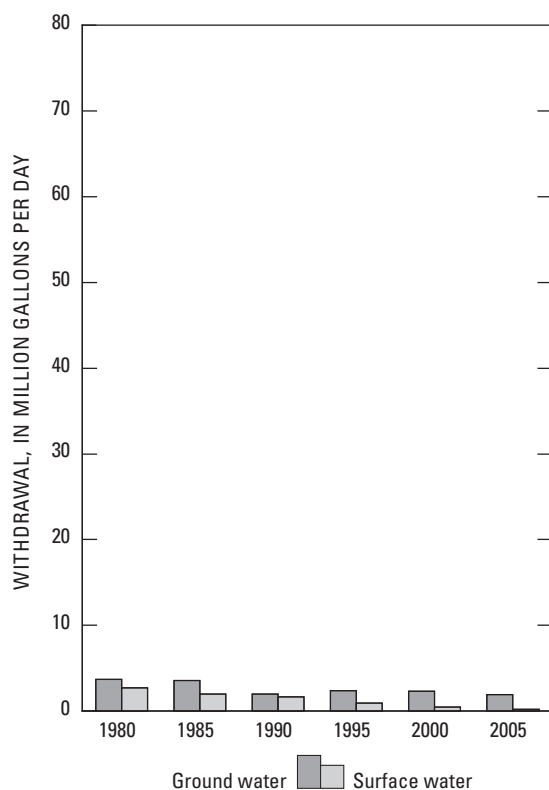
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.45	0.35	0.12	1.05	0.01	0.00	1.98
Surface Water	0.00	0.00	0.00	0.18	0.01	0.00	0.19
TOTALS	0.45	0.35	0.12	1.23	0.02	0.00	2.17

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Lakeland	0.43	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



LAURENS COUNTY

Population: 46,896

Population served by public supply: 25,030

Acres irrigated: 12,550

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

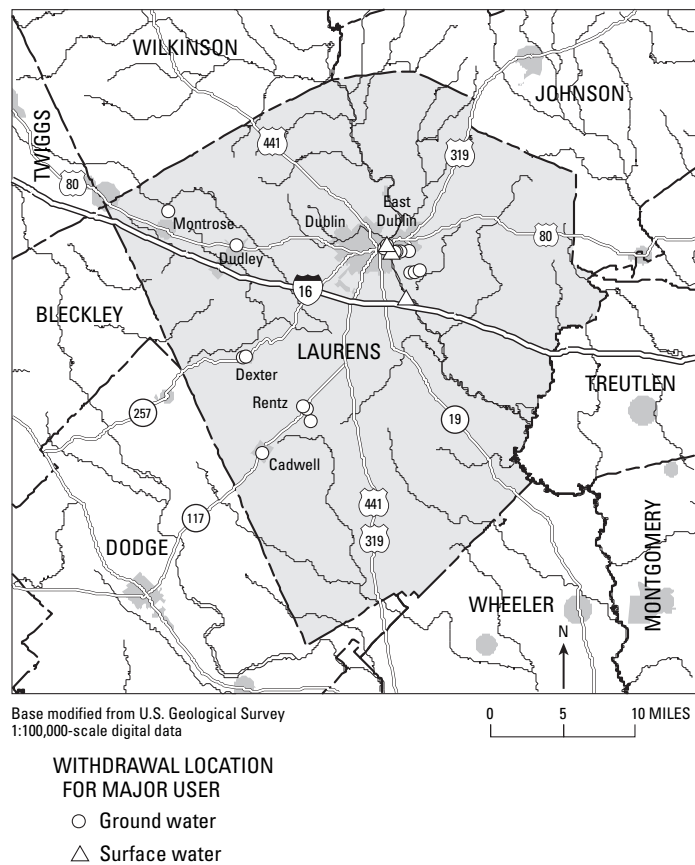
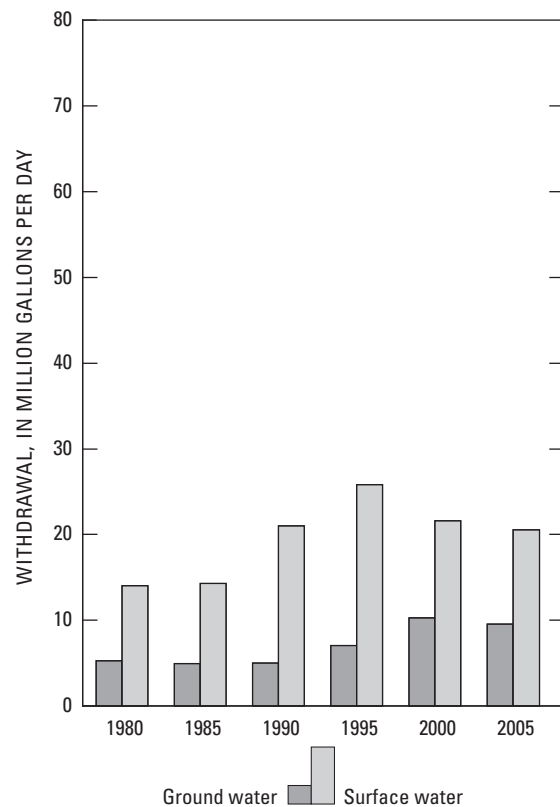
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.90	1.64	1.08	5.94	0.03	0.00	9.59
Surface Water	3.04	0.00	15.82	1.56	0.11	0.00	20.53
TOTALS	3.94	1.64	16.90	7.50	0.14	0.00	30.12

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Cadwell	0.03	0.00
Town of Dexter	0.06	0.00
City of Dublin	0.11	3.04
City of Dudley	0.04	0.00
Town of East Dublin	0.47	0.00
Town of Montrose	0.00	0.00
Town of Rentz	0.09	0.00
City of Allentown	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	1.08	0.65
26 - Chemicals	0.00	15.18



LEE COUNTY

Population: 31,099

Population served by public supply: 15,250

Acres irrigated: 44,600

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

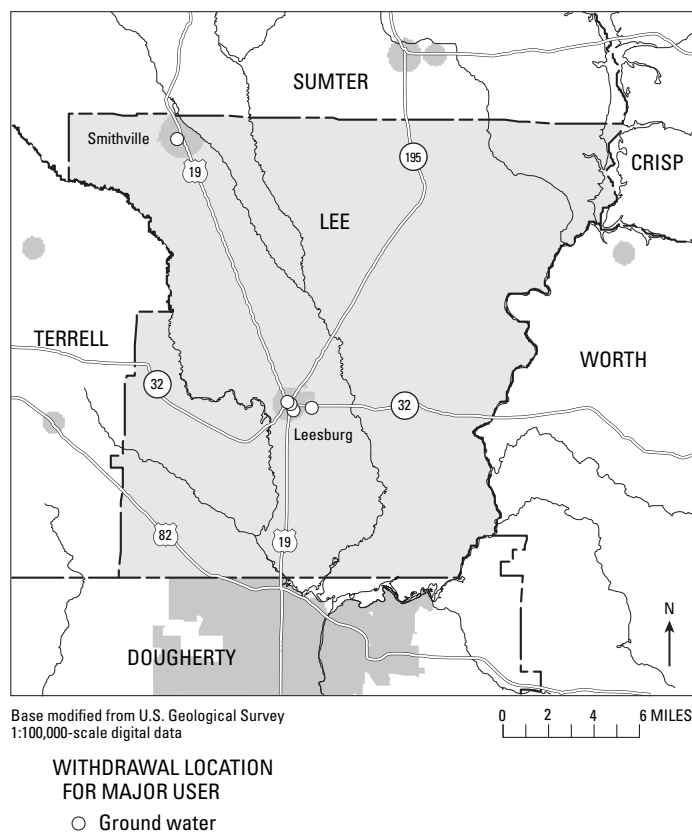
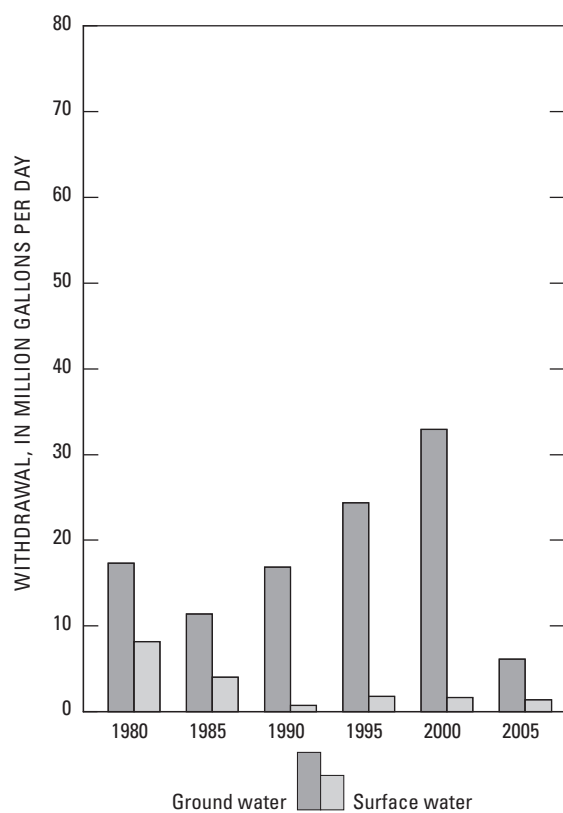
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.82	1.19	0.13	3.06	0.00	0.00	6.20
Surface Water	0.00	0.00	0.00	1.22	0.14	0.00	1.36
TOTALS	1.82	1.19	0.13	4.28	0.14	0.00	7.56

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Lee County Utilities Authority	1.40	0.00
City of Smithville	0.05	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



LIBERTY COUNTY

Population: 57,544

Population served by public supply: 48,340

Acres irrigated: 90

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

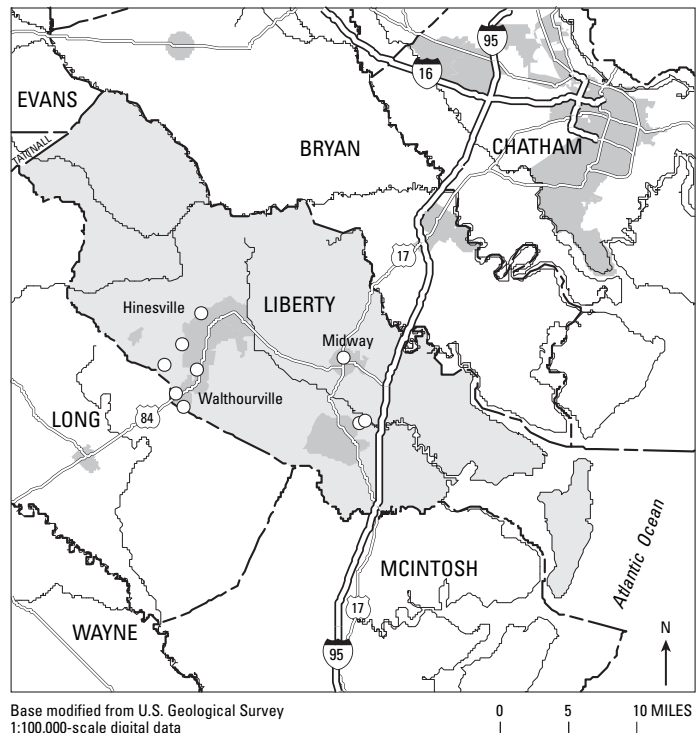
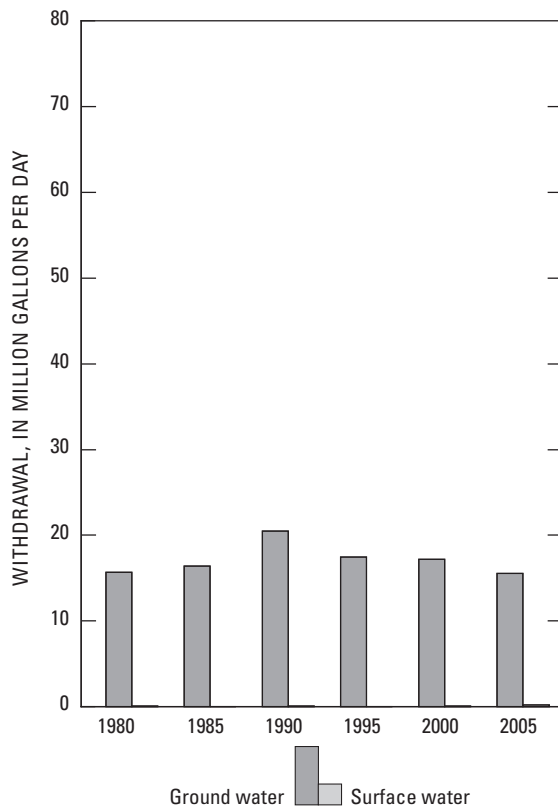
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.84	2.48	8.26	0.00	0.00	0.00	15.58
Surface Water	0.00	0.00	0.00	0.20	0.01	0.00	0.21
TOTALS	4.84	2.48	8.26	0.20	0.01	0.00	15.79

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hinesville	2.92	0.00
City of Midway	0.23	0.00
City of Walthourville	0.43	0.00
City of Riceboro	0.62	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	8.20	0.00

**WITHDRAWAL LOCATION FOR MAJOR USER**

○ Ground water

LINCOLN COUNTY

Population: 8,207

Population served by public supply: 5,840

Acres irrigated: 110

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

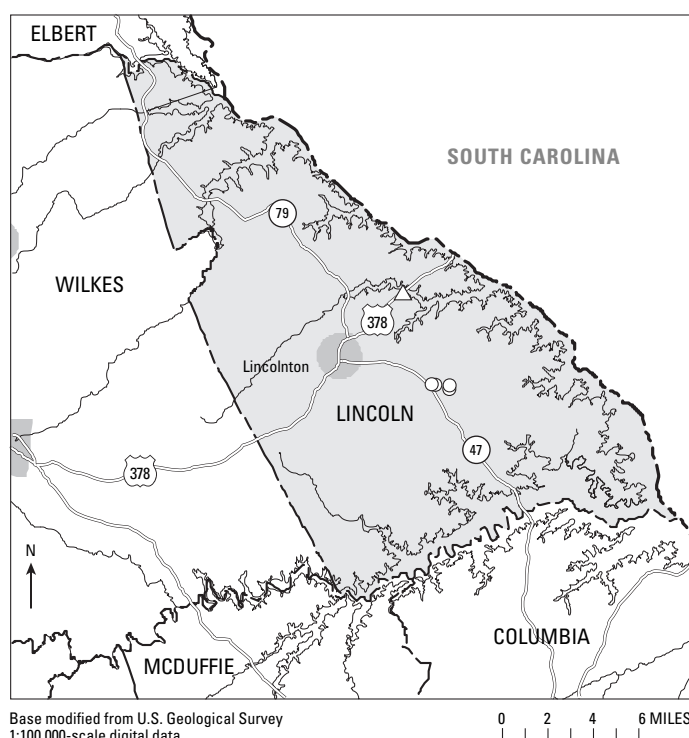
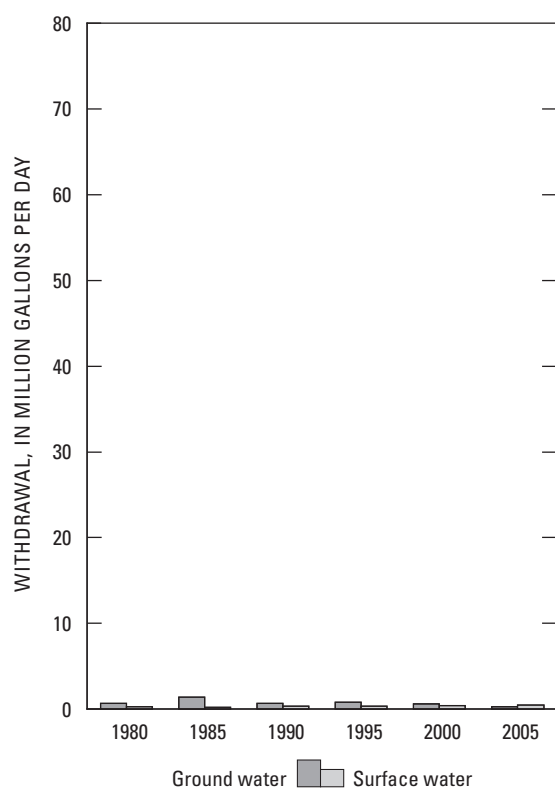
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.01	0.18	0.00	0.09	0.00	0.00	0.28
Surface Water	0.38	0.00	0.00	0.18	0.07	0.00	0.63
TOTALS	0.39	0.18	0.00	0.27	0.07	0.00	0.91

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Lincolnton	0.00	0.38

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

LONG COUNTY

Population: 11,083

Population served by public supply: 3,350

Acres irrigated: 740

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

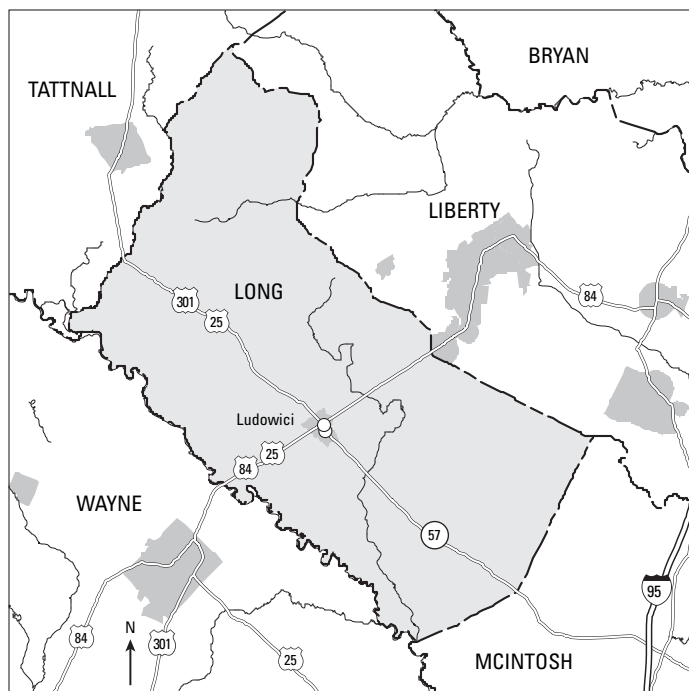
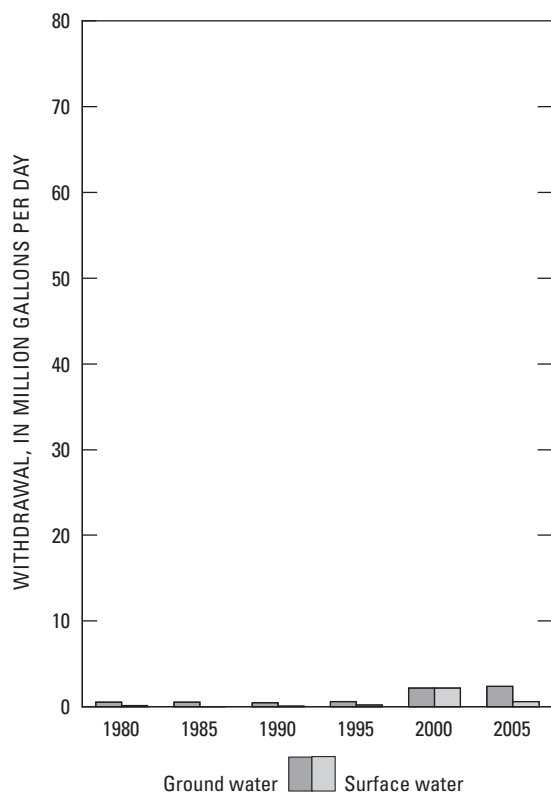
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.49	0.58	0.45	0.00	0.00	0.00	2.52
Surface Water	0.00	0.00	0.01	0.40	0.05	0.00	0.46
TOTALS	1.49	0.58	0.46	0.40	0.05	0.00	2.98

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Ludowici	1.34	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 5 10 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

LOWNDES COUNTY

Population: 96,705

Population served by public supply: 79,830

Acres irrigated: 13,680

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

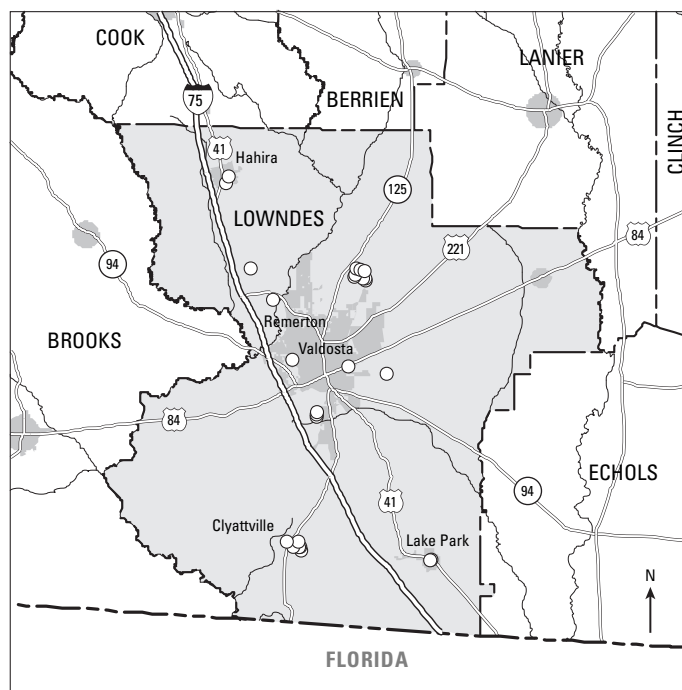
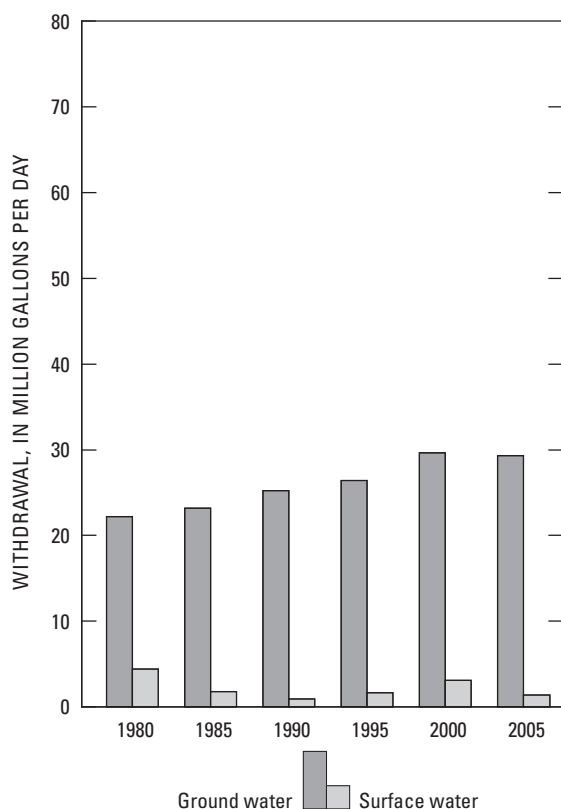
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	10.59	1.65	9.04	7.99	0.03	0.00	29.30
Surface Water	0.00	0.00	0.00	1.37	0.05	0.00	1.42
TOTALS	10.59	1.65	9.04	9.36	0.08	0.00	30.72

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Clyattville	0.02	0.00
City of Hahira	0.26	0.00
Town of Lake Park	0.04	0.00
Lowndes County Water System	1.79	0.00
City of Remerton	0.05	0.00
City of Valdosta	7.53	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	8.11	0.00
28 - Chemicals	0.85	0.00
36 - Electrical machinery	0.08	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

LUMPKIN COUNTY

Population: 24,324

Population served by public supply: 4,450

Acres irrigated: 190

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

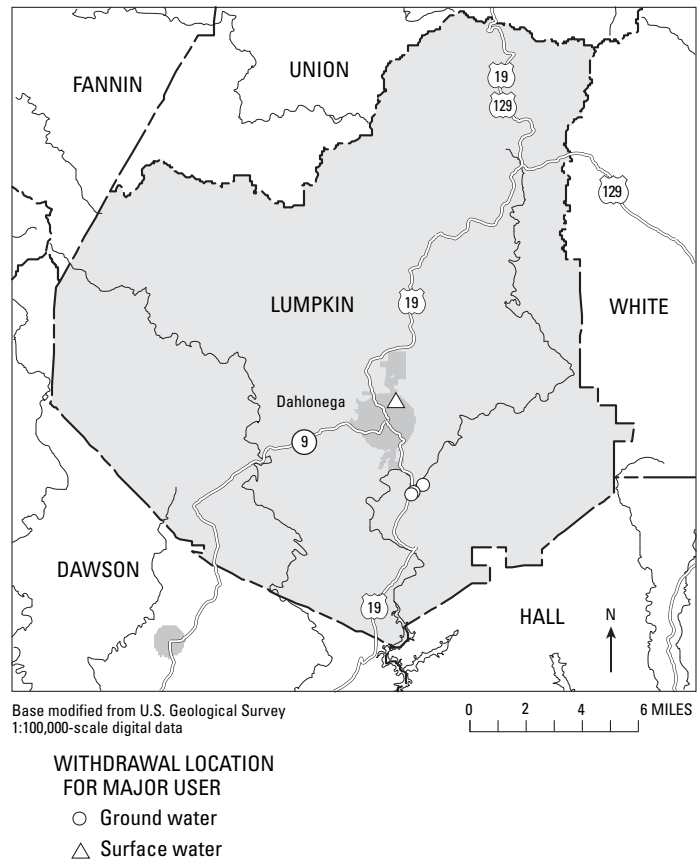
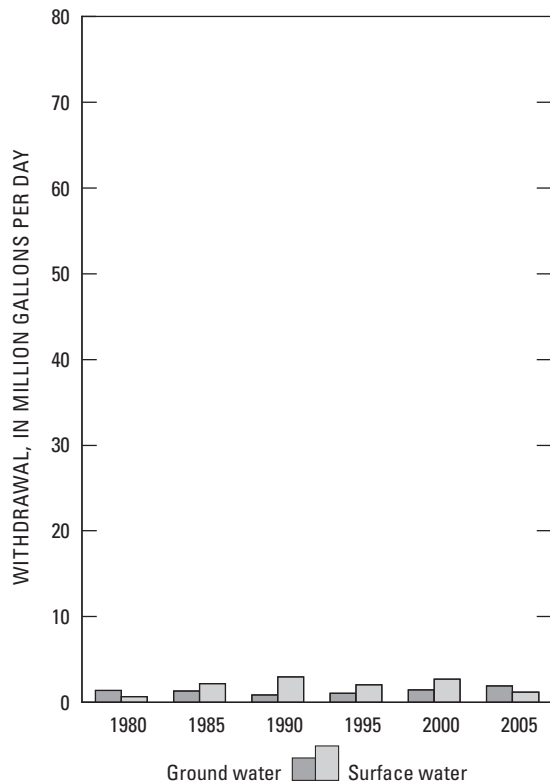
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.41	1.49	0.00	0.03	0.00	0.00	1.93
Surface Water	0.80	0.00	0.14	0.15	0.22	0.00	1.31
TOTALS	1.21	1.49	0.14	0.18	0.22	0.00	3.24

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Dahlonega	0.30	0.80

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
14 - Mining	0.00	0.14



MACON COUNTY

Population: 13,745

Population served by public supply: 2,720

Acres irrigated: 28,210

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

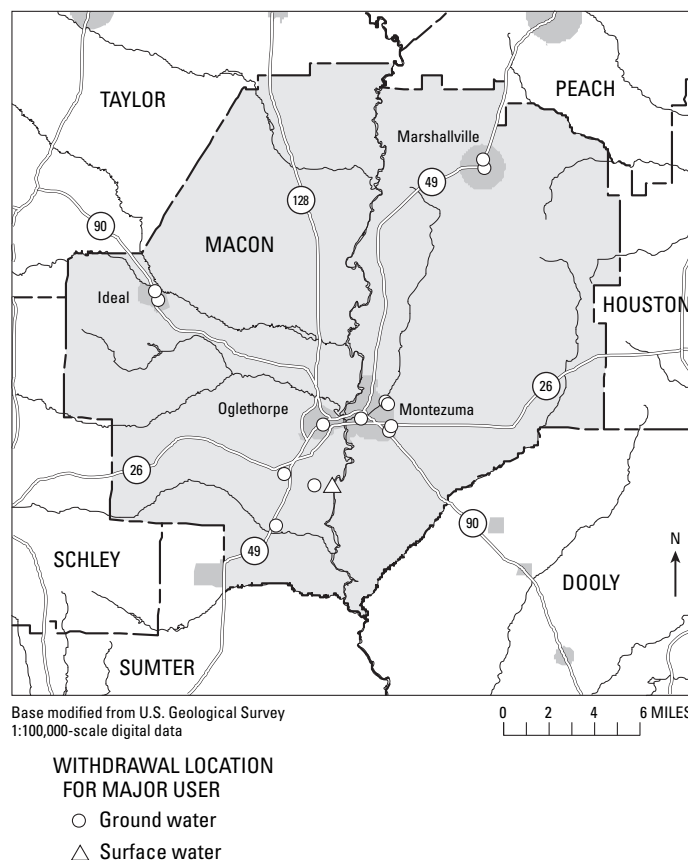
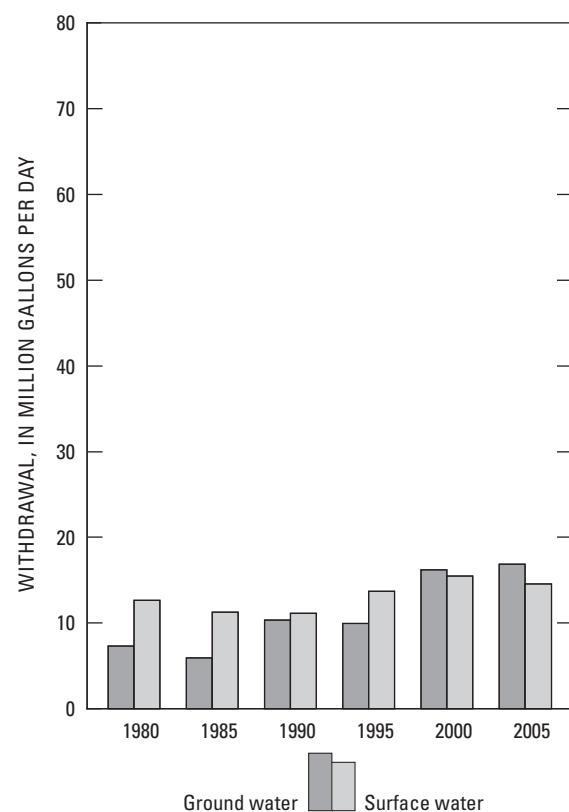
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.59	0.44	0.96	13.77	0.12	0.00	16.88
Surface Water	0.00	0.00	9.61	4.49	0.49	0.00	14.59
TOTALS	1.59	0.44	10.57	18.26	0.61	0.00	31.47

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Ideal	0.04	0.00
Town of Marshallville	0.14	0.00
City of Montezuma	0.94	0.00
City of Oglethorpe	0.47	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.46	0.00
26 - Paper	0.47	9.61
32 - Stone, clay	0.03	0.00



MADISON COUNTY

Population: 27,289

Population served by public supply: 12,830

Acres irrigated: 340

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

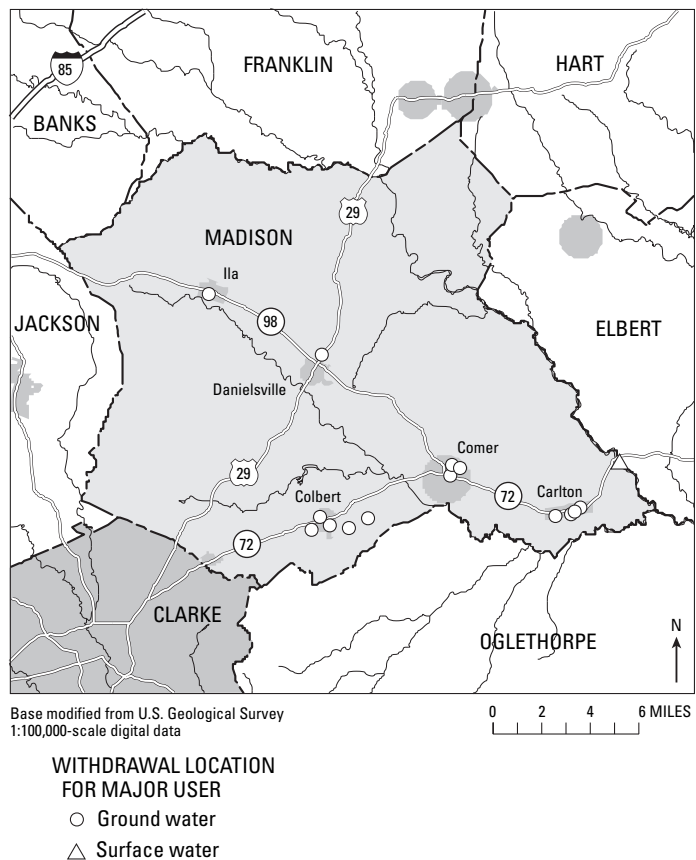
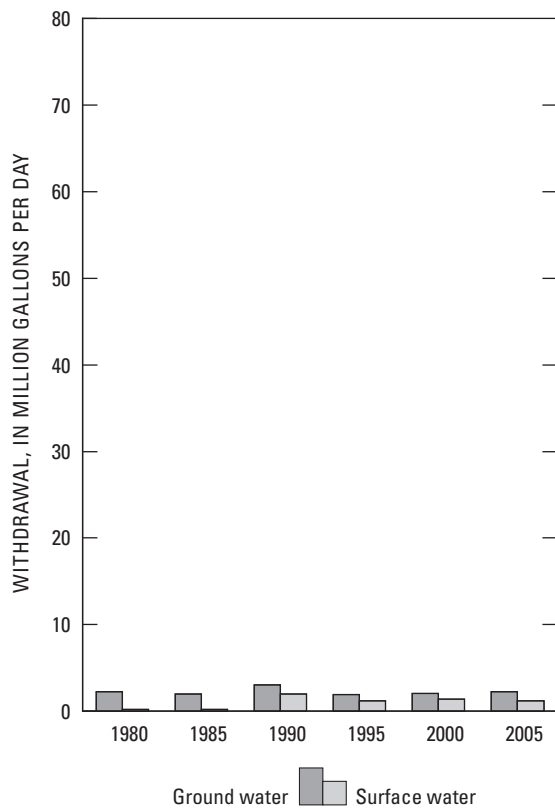
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.42	1.64	0.09	0.09	0.00	0.00	2.24
Surface Water	0.00	0.00	0.21	0.25	0.86	0.00	1.32
TOTALS	0.42	1.64	0.30	0.34	0.86	0.00	3.56

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Carlton	0.02	0.00
City of Colbert	0.09	0.00
Town of Comer	0.09	0.00
City of Danielsville	0.11	0.00
City of Ila	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.00	0.21



MARION COUNTY

Population: 7,244

Population served by public supply: 8,300

Acres irrigated: 3,690

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

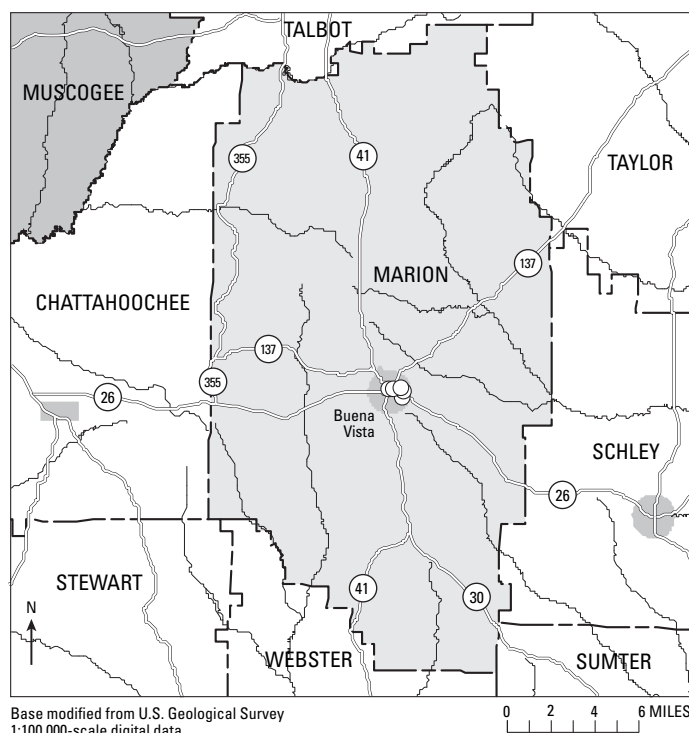
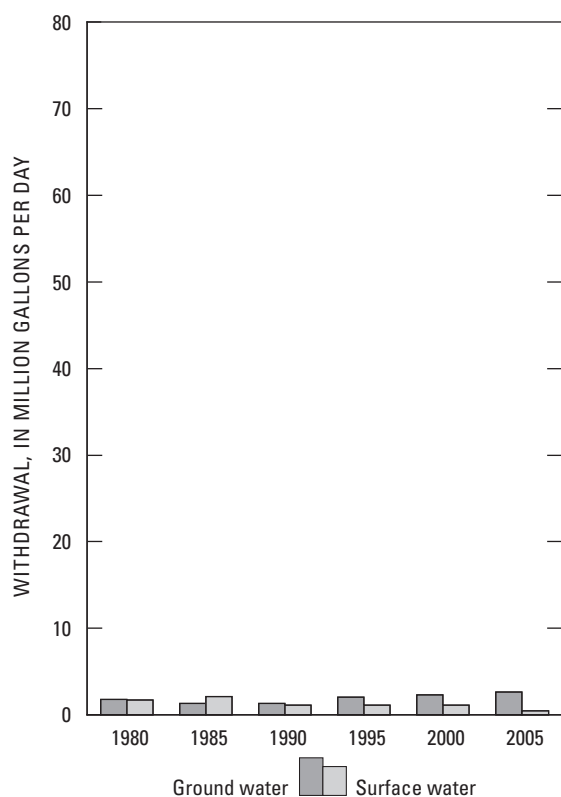
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.91	0.49	0.29	0.19	0.01	0.00	2.89
Surface Water	0.00	0.00	0.00	0.30	0.08	0.00	0.38
TOTALS	1.91	0.49	0.29	0.49	0.09	0.00	3.27

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Buena Vista	1.44	0.00
Marion County Water System	0.47	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

MCDUFFIE COUNTY

Population: 21,743

Population served by public supply: 7,910

Acres irrigated: 1,560

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

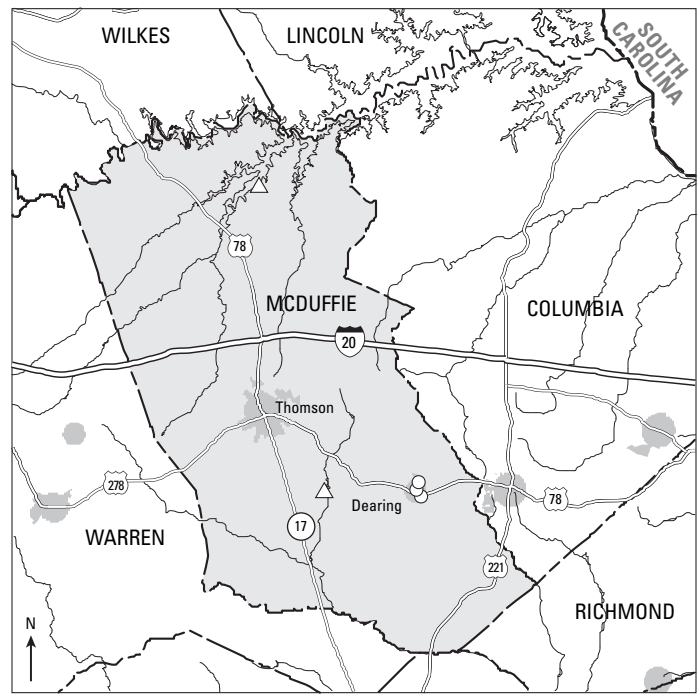
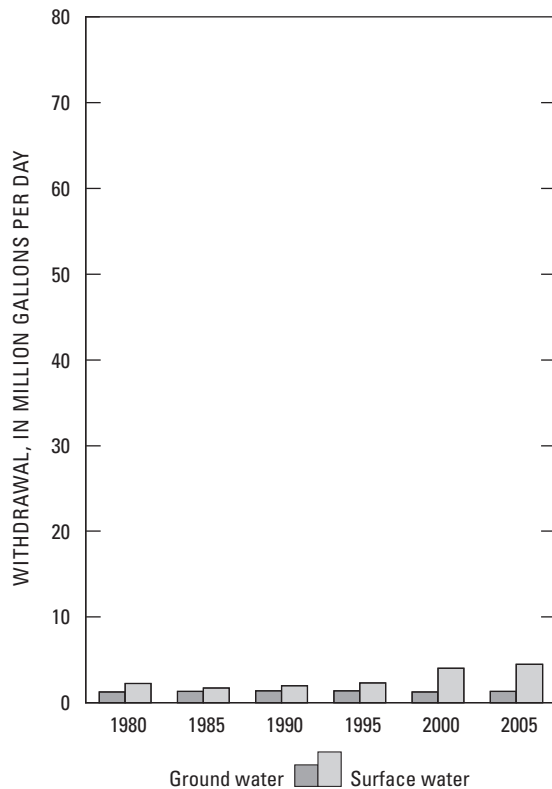
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.03	0.67	0.00	0.66	0.00	0.00	1.36
Surface Water	2.58	0.00	0.00	1.77	0.14	0.00	4.49
TOTALS	2.61	0.67	0.00	2.43	0.14	0.00	5.85

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Dearing	0.03	0.00
Thomson–McDuffie County Water Commission	0.00	2.58

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

MCINTOSH COUNTY

Population: 11,068

Population served by public supply: 5,380

Acres irrigated: 100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

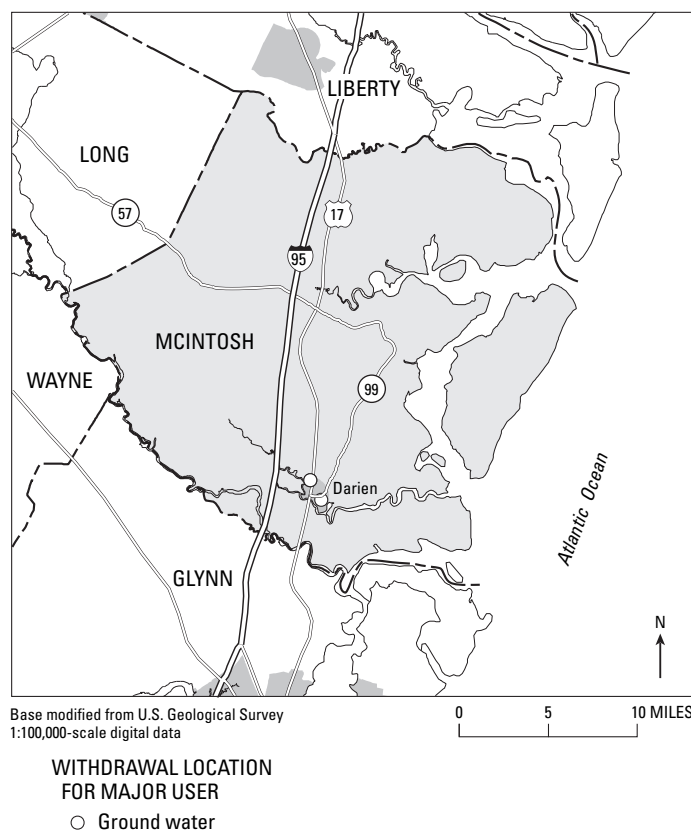
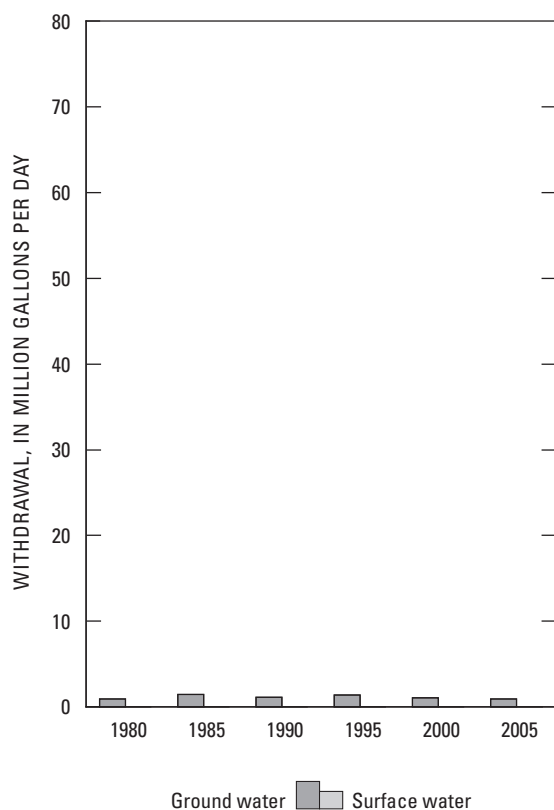
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.73	0.21	0.00	0.00	0.00	0.00	0.94
Surface Water	0.00	0.00	0.00	0.15	0.00	0.00	0.15
TOTALS	0.73	0.21	0.00	0.15	0.00	0.00	1.09

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Darien	0.32	0.00
Hog Hammock Commission	0.01	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



MERIWETHER COUNTY

Population: 22,919

Population served by public supply: 9,870

Acres irrigated: 350

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

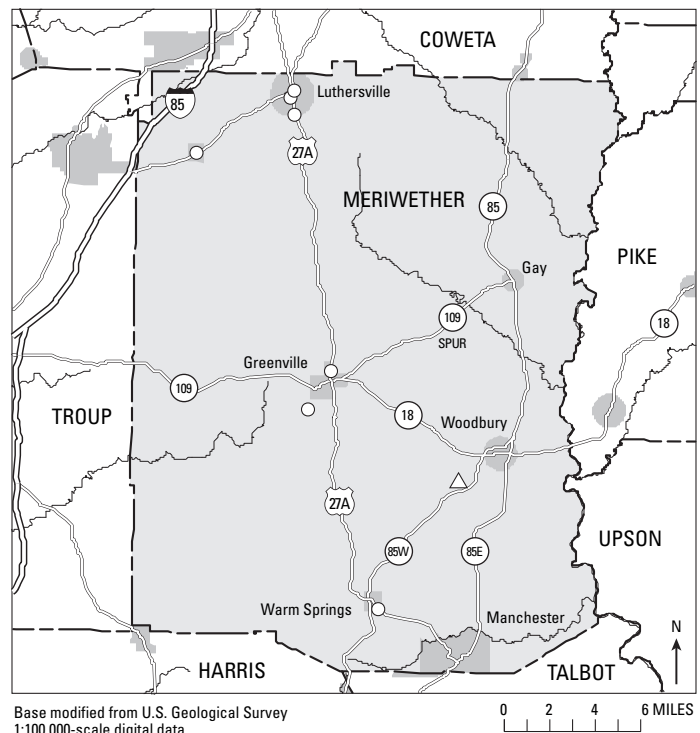
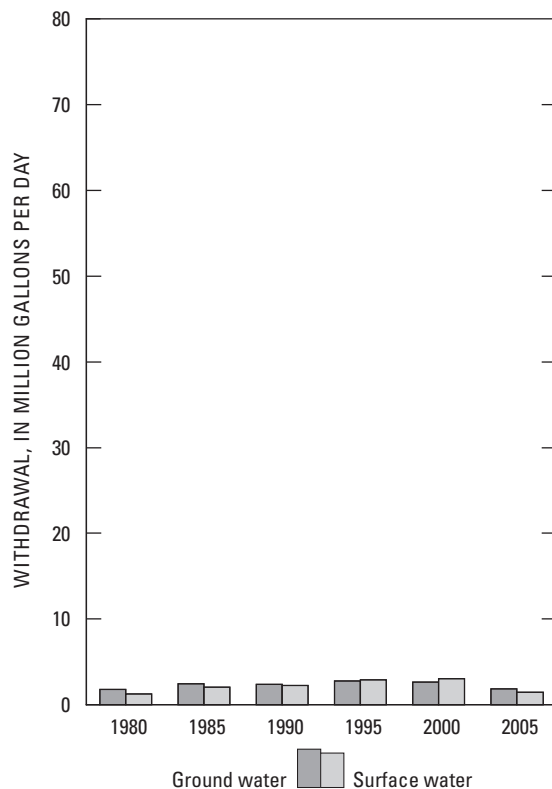
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.18	1.08	0.09	0.49	0.00	0.00	1.84
Surface Water	1.23	0.00	0.00	0.29	0.22	0.00	1.74
TOTALS	1.41	1.08	0.09	0.78	0.22	0.00	3.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Lone Oak Water System	0.03	0.00
Town of Luthersville	0.05	0.00
City of Warm Springs	0.08	0.00
Town of Woodbury	0.00	0.15
City of Manchester (water source located in Talbot County)	0.00	1.09

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

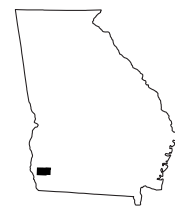
MILLER COUNTY

Population: 6,228

Population served by public supply: 2,450

Acres irrigated: 43,030

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

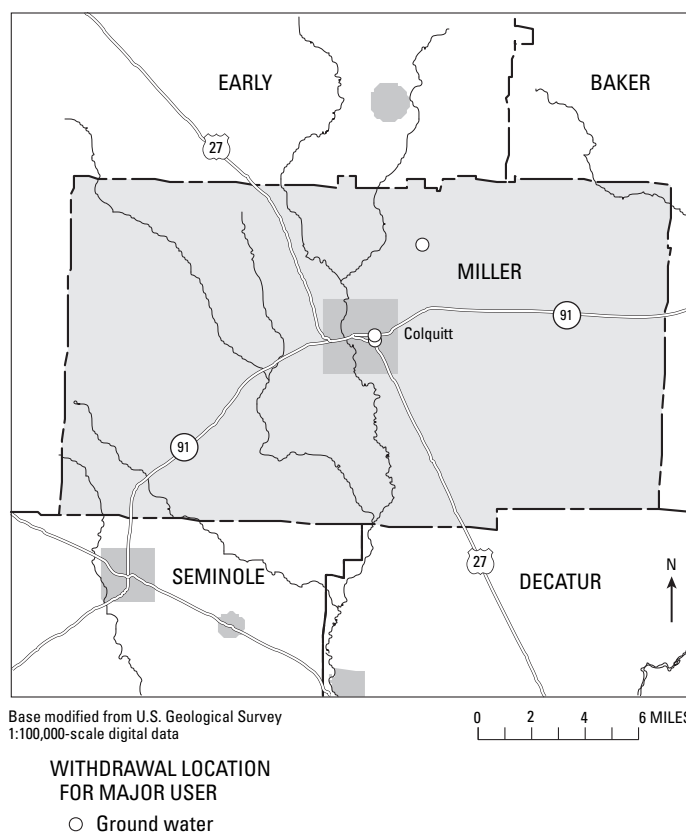
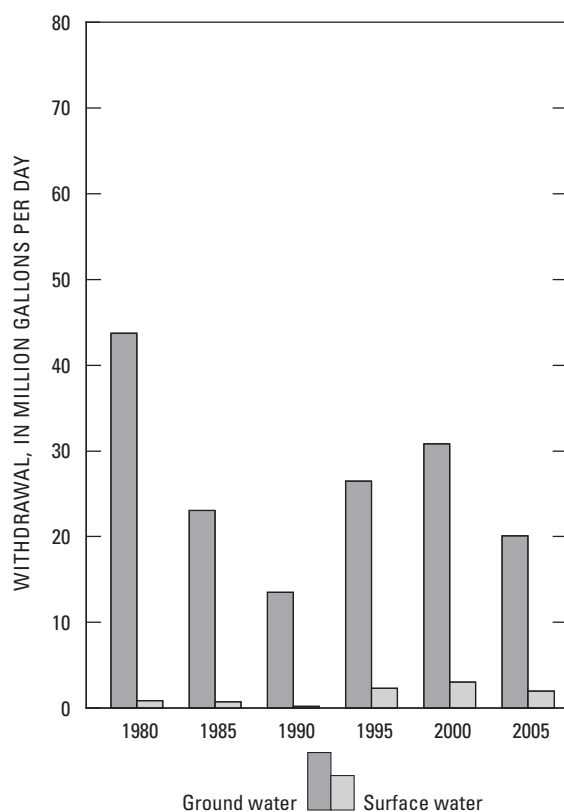
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.69	0.28	0.00	19.13	0.00	0.00	20.10
Surface Water	0.00	0.00	0.00	1.88	0.11	0.00	1.99
TOTALS	0.69	0.28	0.00	21.01	0.11	0.00	22.09

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Colquitt	0.69	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



MITCHELL COUNTY

Population: 23,791

Population served by public supply: 12,880

Acres irrigated: 78,180

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

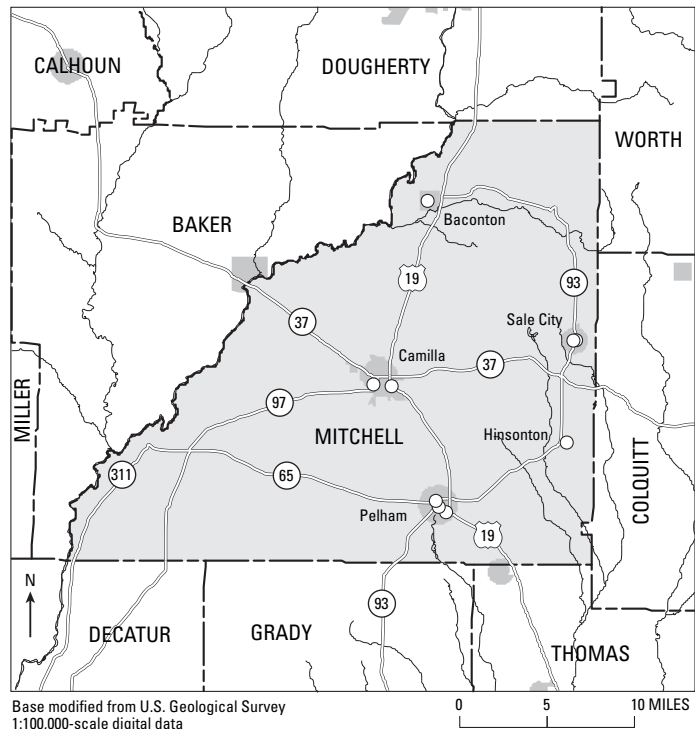
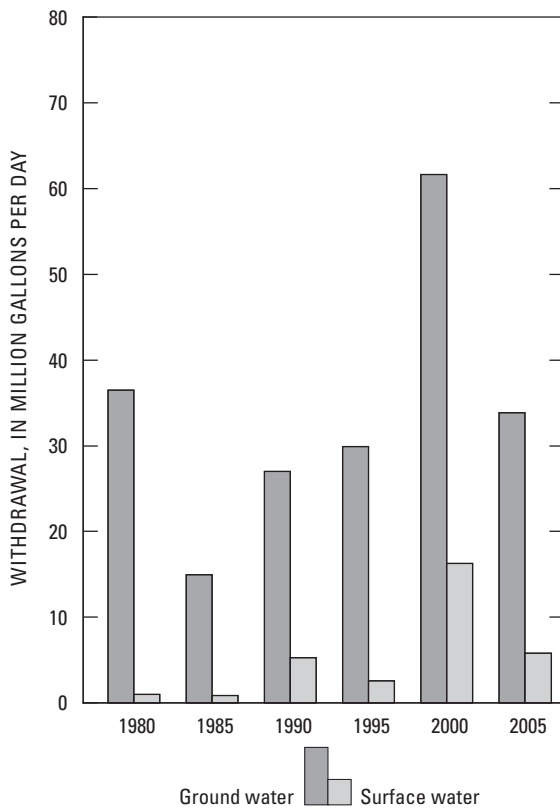
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.87	1.09	0.03	28.87	0.01	0.00	33.87
Surface Water	0.00	0.00	0.00	5.12	0.68	0.00	5.80
TOTALS	3.87	1.09	0.03	33.99	0.69	0.00	39.67

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Baconton	0.07	0.00
City of Camilla	3.23	0.00
Hinsonton Water Association	0.01	0.00
City of Pelham	0.51	0.00
Town of Sale City	0.04	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

MONROE COUNTY

Population: 23,785

Population served by public supply: 8,240

Acres irrigated: 100

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

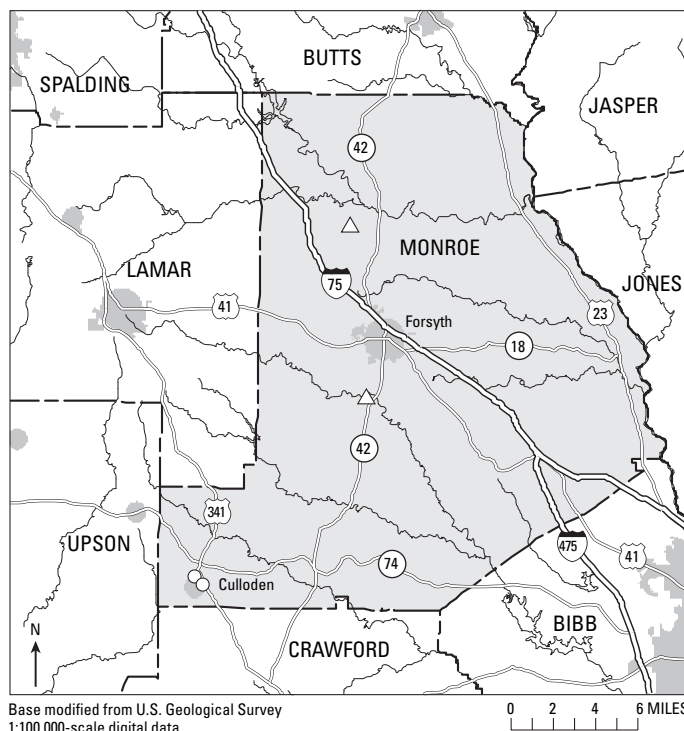
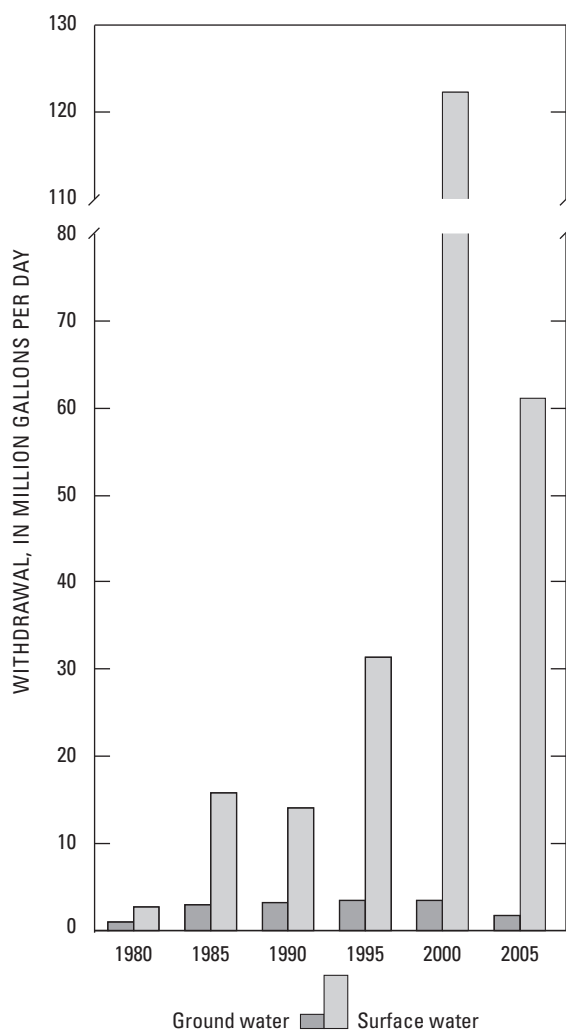
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.15	1.17	0.69	0.00	0.00	0.02	2.03
Surface Water	1.28	0.00	0.01	0.15	0.33	59.00	60.77
TOTALS	1.43	1.17	0.70	0.15	0.33	59.02	62.80

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Culloden	0.02	0.00
City of Forsyth	0.00	1.28

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

MONTGOMERY COUNTY

Population: 8,909

Population served by public supply: 5,430

Acres irrigated: 2,930

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

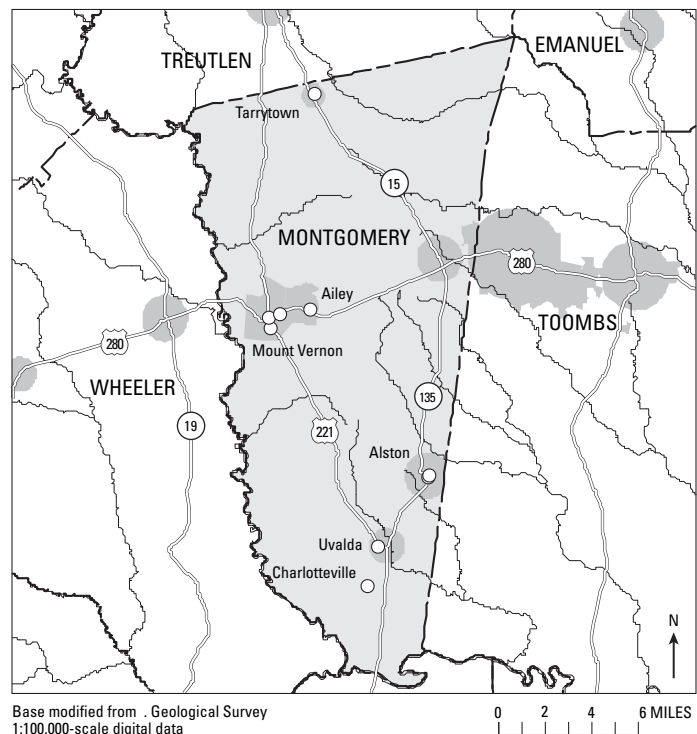
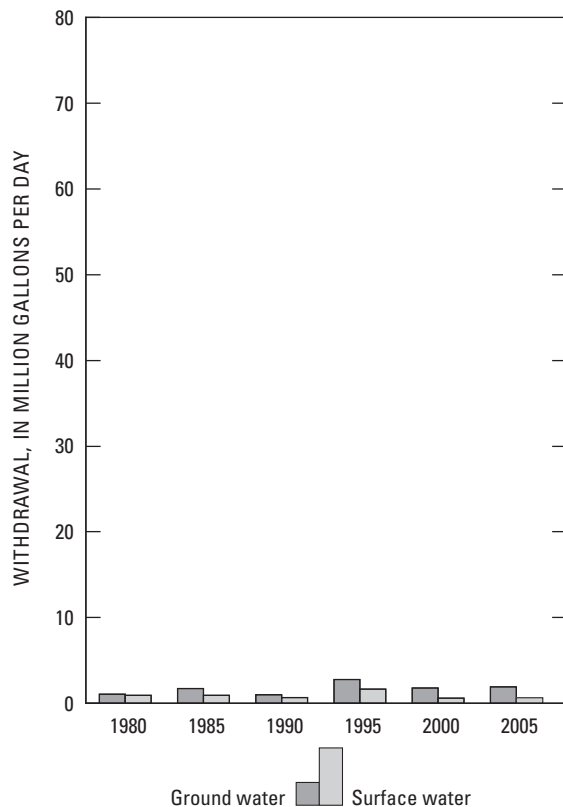
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.48	0.26	0.01	1.13	0.01	0.00	1.89
Surface Water	0.00	0.00	0.00	0.52	0.05	0.00	0.57
TOTALS	0.48	0.26	0.01	1.65	0.06	0.00	2.46

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Ailey	0.04	0.00
Town of Alston	0.01	0.00
Charlotte Water Association	0.00	0.00
City of Mt. Vernon	0.34	0.00
Village of Tarrytown	0.01	0.00
Town of Uvalda	0.06	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

MORGAN COUNTY

Population: 17,492

Population served by public supply: 8,050

Acres irrigated: 290

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

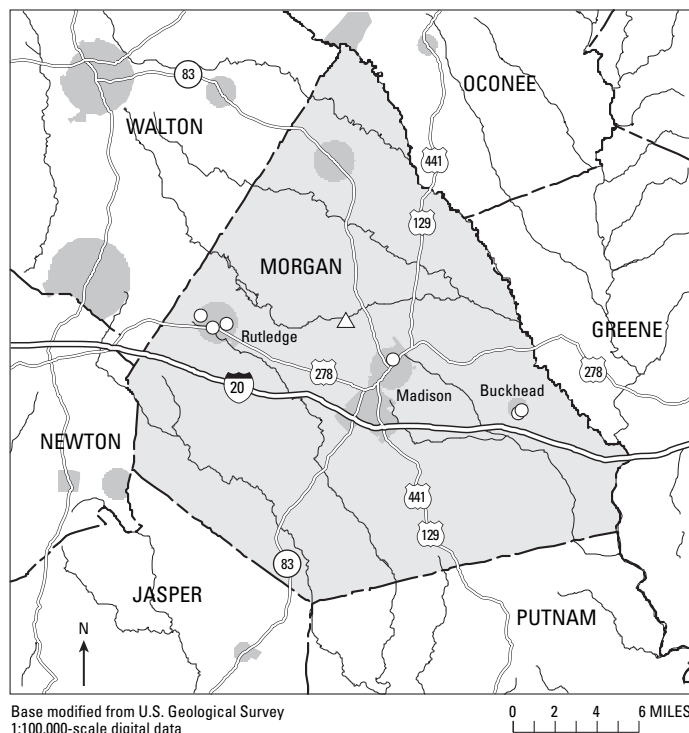
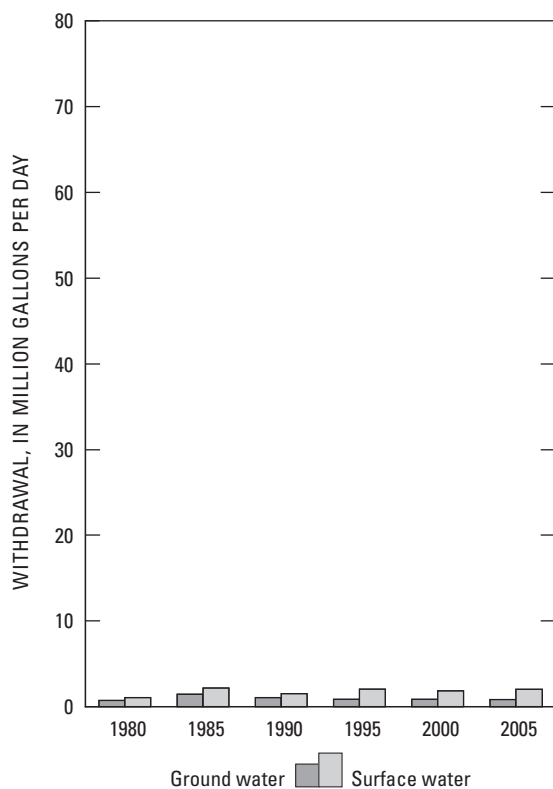
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.15	0.71	0.00	0.01	0.00	0.00	0.87
Surface Water	1.30	0.00	0.14	0.10	0.51	0.00	2.05
TOTALS	1.45	0.71	0.14	0.11	0.51	0.00	2.92

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Buckhead	0.04	0.00
City of Madison	0.01	0.47

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.00	0.14



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

MURRAY COUNTY

Population: 40,812

Population served by public supply: 16,220

Acres irrigated: 1,110

Hydroelectric use (Mgal/d): 1,126.98

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

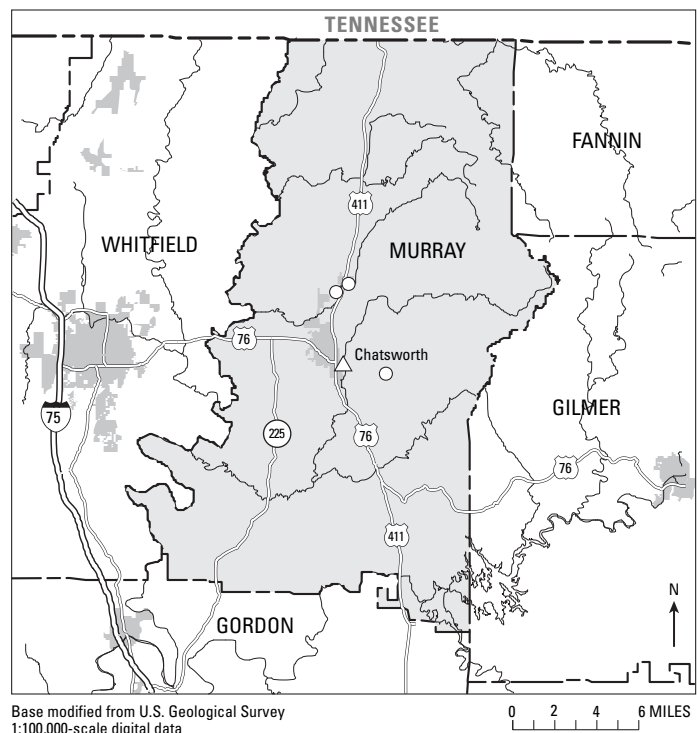
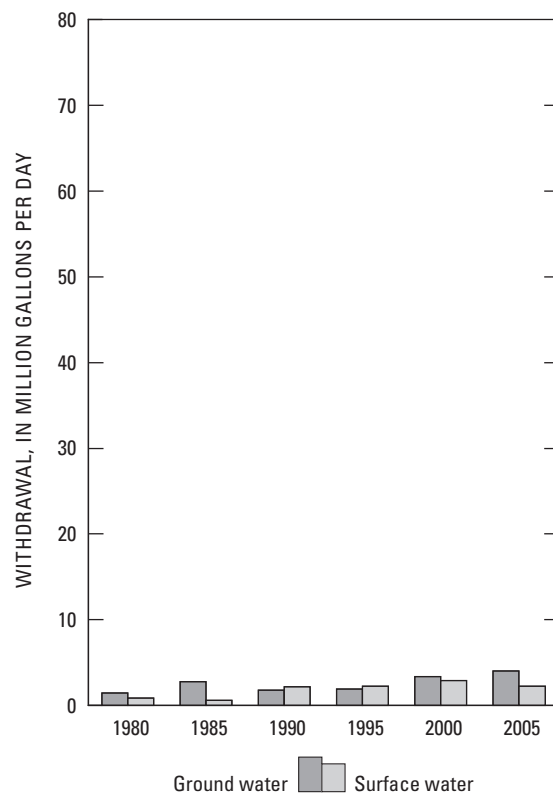
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.16	1.84	0.04	0.00	0.02	0.00	4.06
Surface Water	1.26	0.00	0.00	0.78	0.19	0.00	2.23
TOTALS	3.42	1.84	0.04	0.78	0.21	0.00	6.29

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Chatsworth Waterworks Commission	1.44	0.00
City of Chatsworth	0.71	1.26

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

- Ground water
- △ Surface water

MUSCOGEE COUNTY

Population: 185,271

Population served by public supply: 185,270

Acres irrigated: 790

Hydroelectric use (Mgal/d): 8,333.33



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

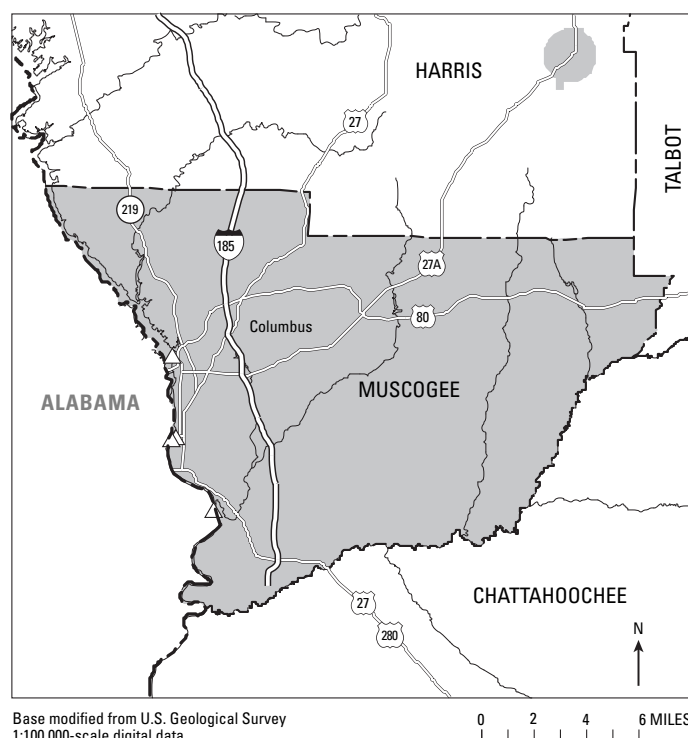
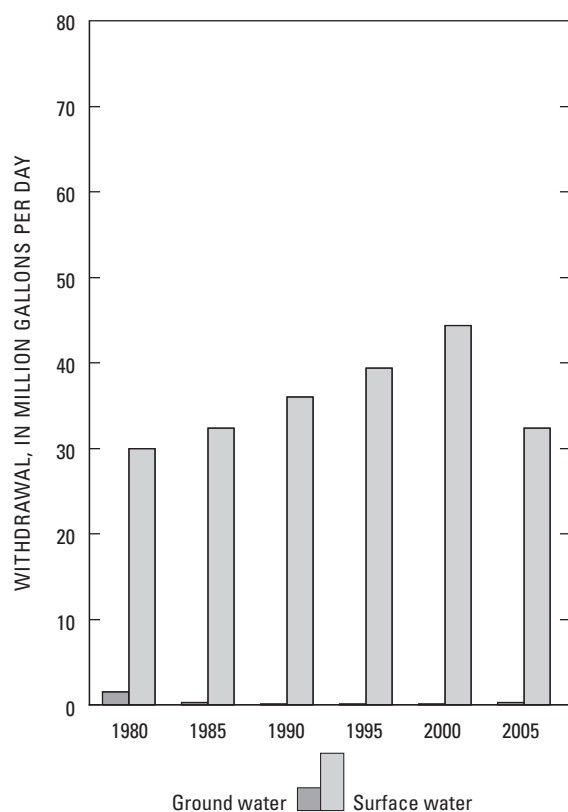
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.00	0.46	0.00	0.00	0.00	0.46
Surface Water	32.22	0.00	0.01	1.18	0.02	0.00	33.43
TOTALS	32.22	0.00	0.47	1.18	0.02	0.00	33.89

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Smith Water Authority	0.00	2.38
City of Columbus	0.00	29.85

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
28 - Chemicals	0.03	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

NEWTON COUNTY

Population: 86,713

Population served by public supply: 59,650

Acres irrigated: 250

Hydroelectric use (Mgal/d): 39.35



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

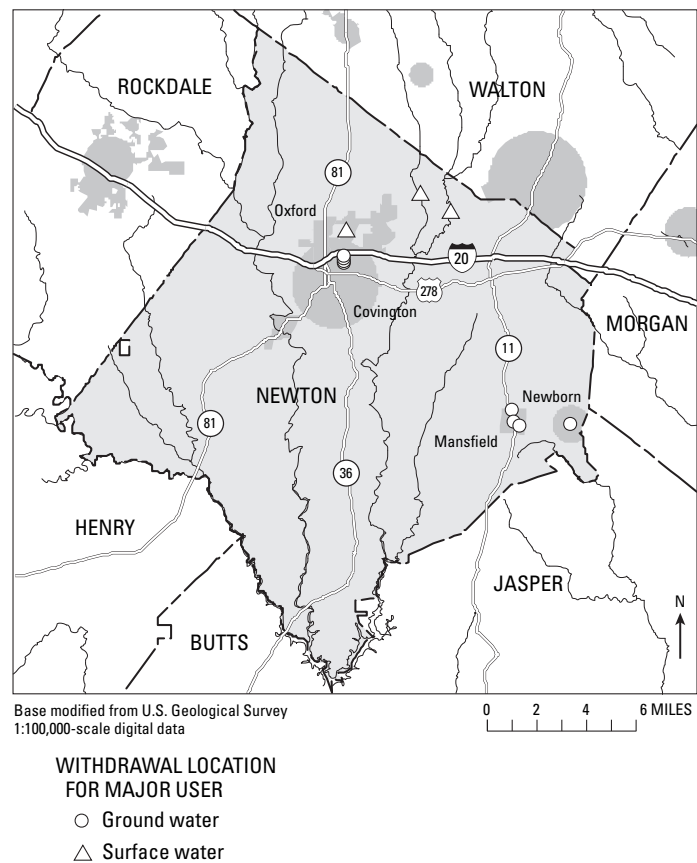
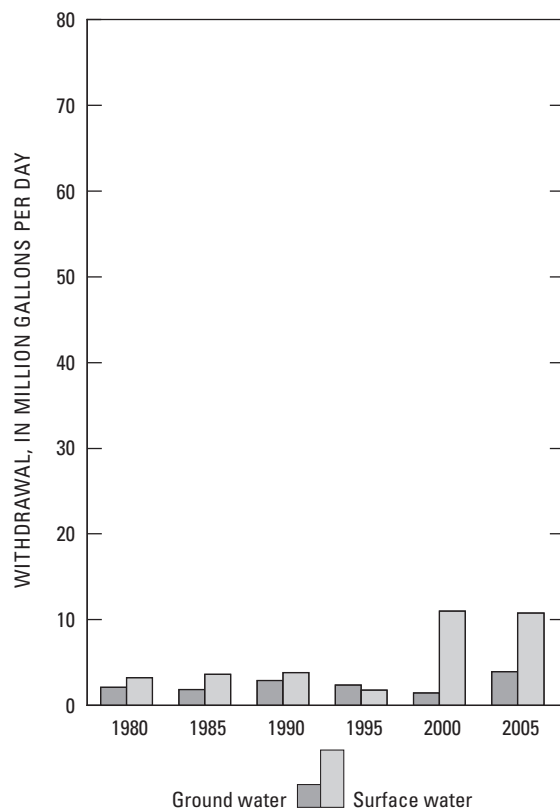
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.18	2.03	0.32	0.47	0.01	0.00	4.01
Surface Water	10.07	0.00	0.00	0.47	0.09	0.00	10.63
TOTALS	11.25	2.03	0.32	0.94	0.10	0.00	14.64

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Newton County–Almond Community	0.03	0.00
City of Covington	0.00	1.32
Town of Mansfield	0.05	0.00
Town of Newborn	0.05	0.00
City of Oxford	0.15	0.00
Newton County Board of Commissioners	0.00	8.63
Town of Porterdale	0.00	0.12
City of Oxford	0.15	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



OCONEE COUNTY

Population: 29,748

Population served by public supply: 17,850

Acres irrigated: 630

Hydroelectric use (Mgal/d): 160.33



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

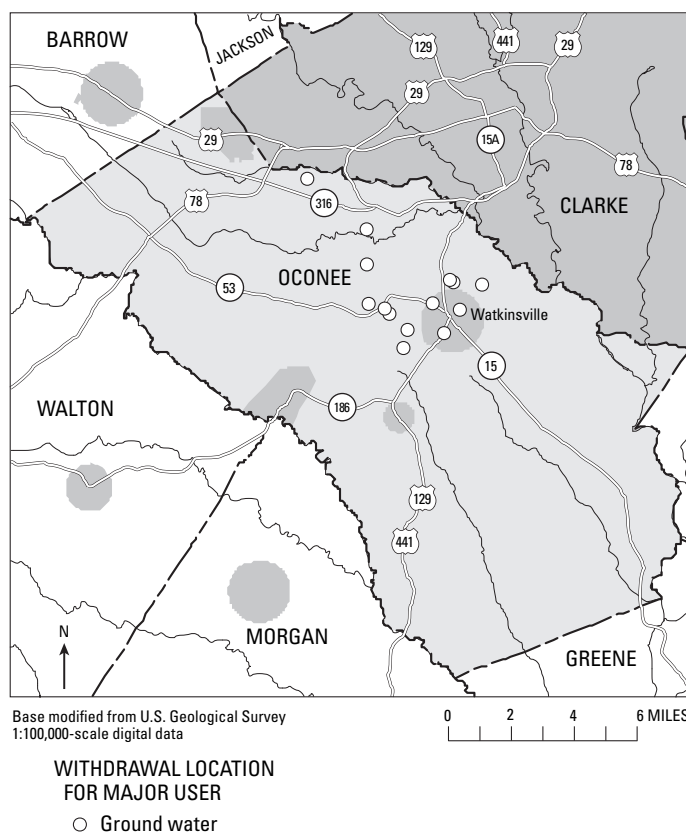
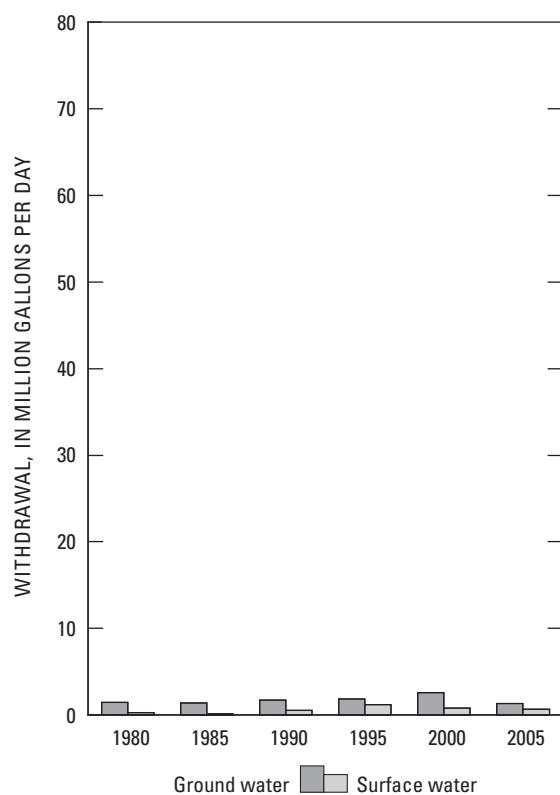
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.31	0.89	0.00	0.12	0.00	0.00	1.32
Surface Water	0.00	0.00	0.00	0.37	0.32	0.00	0.69
TOTALS	0.31	0.89	0.00	0.49	0.32	0.00	2.01

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Oconee County Public Utilities Authority	0.04	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



OGLETHORPE COUNTY

Population: 13,609

Population served by public supply: 2,340

Acres irrigated: 450

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

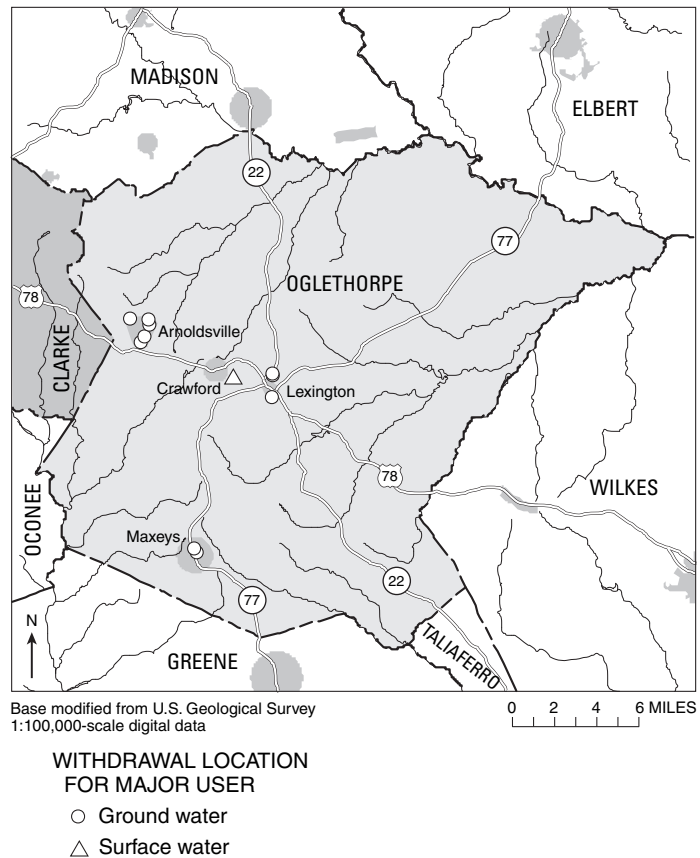
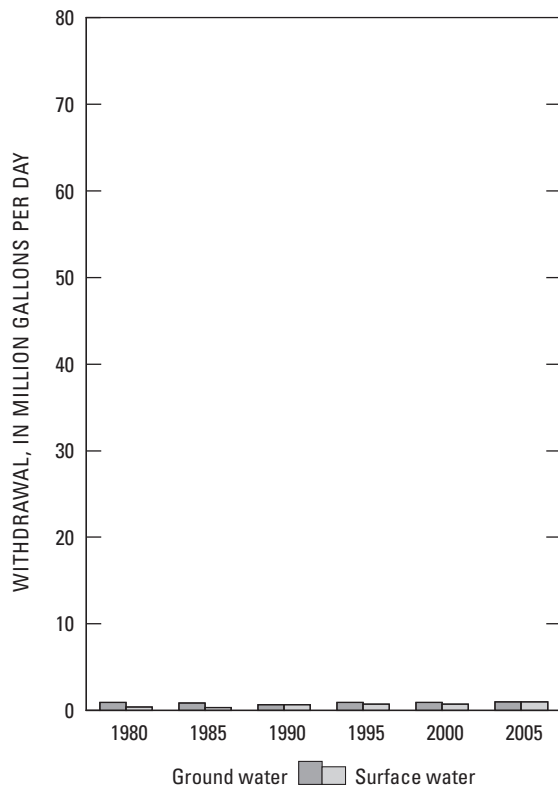
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.09	0.84	0.00	0.05	0.00	0.00	0.98
Surface Water	0.13	0.00	0.00	0.29	0.59	0.00	1.01
TOTALS	0.22	0.84	0.00	0.34	0.59	0.00	1.99

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Arnoldsville	0.02	0.00
City of Crawford	0.00	0.13
City of Lexington	0.04	0.00
Town of Maxeys	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



PAULDING COUNTY

Population: 112,411

Population served by public supply: 96,510

Acres irrigated: 200

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

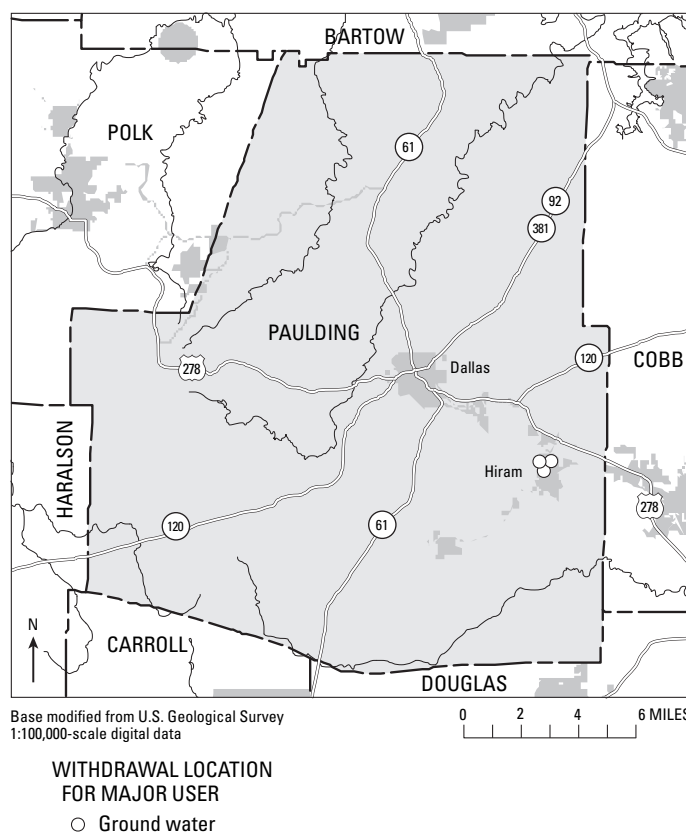
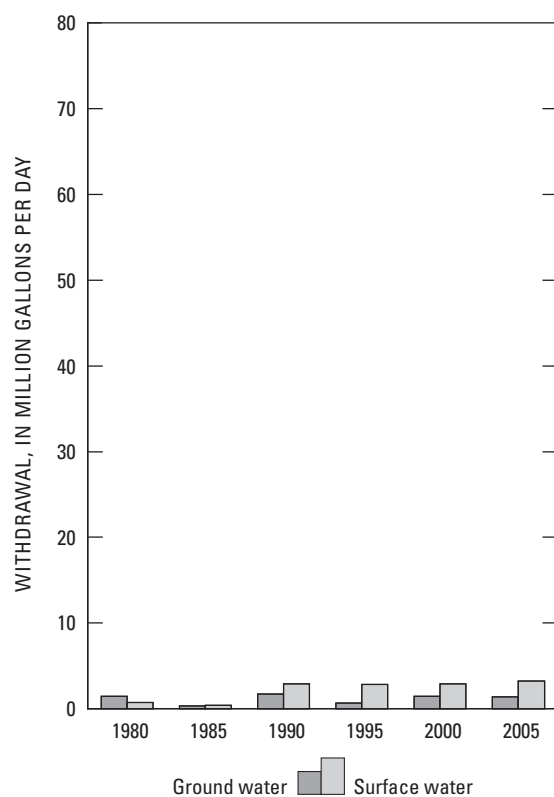
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.06	1.19	0.24	0.00	0.00	0.00	1.49
Surface Water	3.05	0.00	0.00	0.11	0.10	0.00	3.26
TOTALS	3.11	1.19	0.24	0.11	0.10	0.00	4.75

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Dallas	0.00	0.65
City of Hiram	0.06	0.00
Paulding County Water System	0.00	2.40

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



PEACH COUNTY

Population: 24,794

Population served by public supply: 17,100

Acres irrigated: 9,000

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

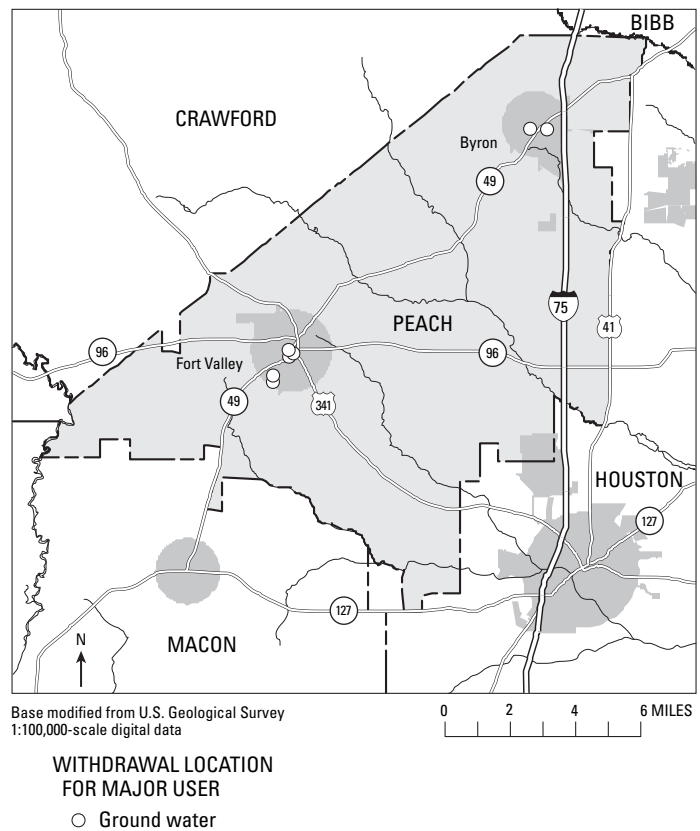
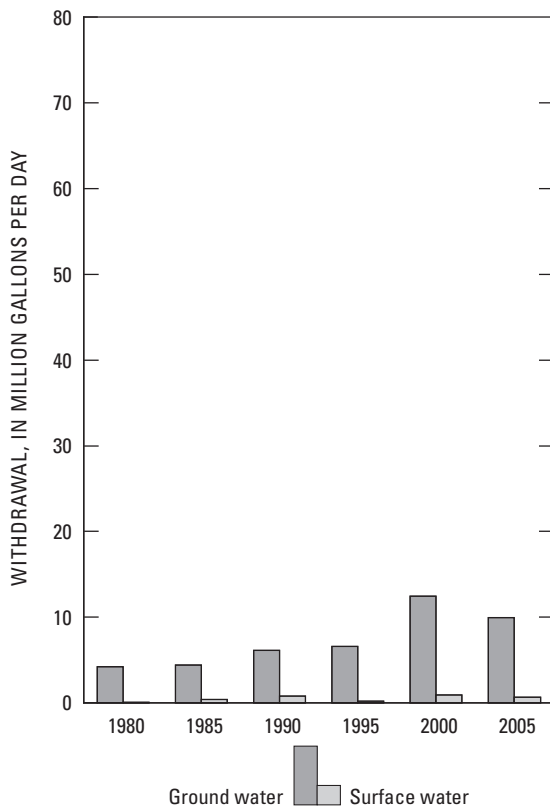
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.16	0.58	0.00	7.22	0.02	0.00	9.98
Surface Water	0.00	0.00	0.00	0.60	0.05	0.00	0.65
TOTALS	2.16	0.58	0.00	7.82	0.07	0.00	10.63

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Byron	0.58	0.00
City of Fort Valley	1.56	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



PICKENS COUNTY

Population: 28,442

Population served by public supply: 21,050

Acres irrigated: 770

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

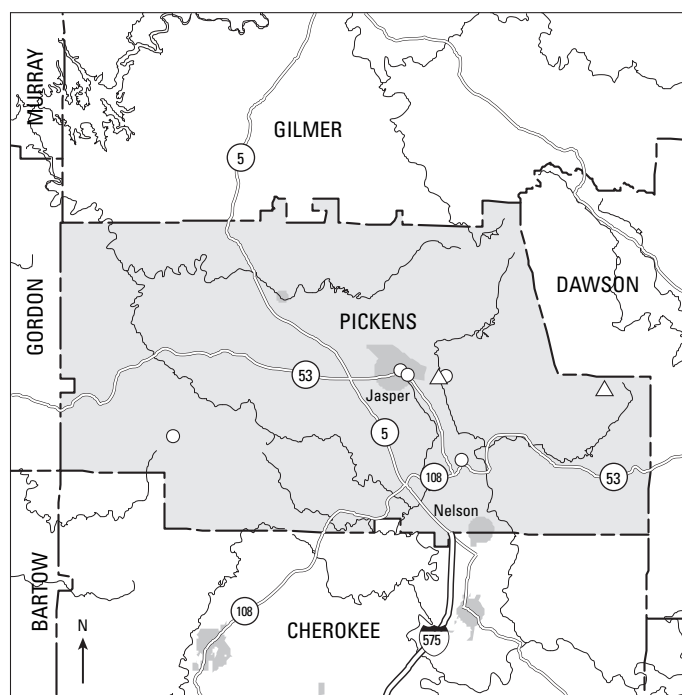
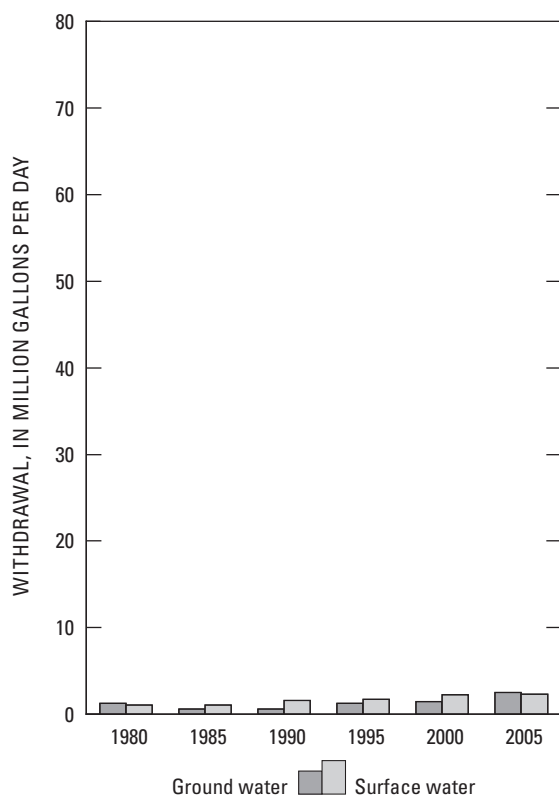
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.62	0.55	1.45	0.02	0.00	0.00	2.64
Surface Water	1.55	0.00	0.01	0.34	0.32	0.00	2.22
TOTALS	2.17	0.55	1.46	0.36	0.32	0.00	4.86

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Big Canoe Corporation	0.00	0.48
City of Jasper	0.48	1.00
City of Nelson	0.06	0.00
Pickens County Water Authority	0.08	0.00
Bent Tree Community	0.00	0.07

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
30 - Rubber	0.00	0.01
32 - Stone, clay	1.12	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

PIERCE COUNTY

Population: 17,119

Population served by public supply: 4,790

Acres irrigated: 12,370

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

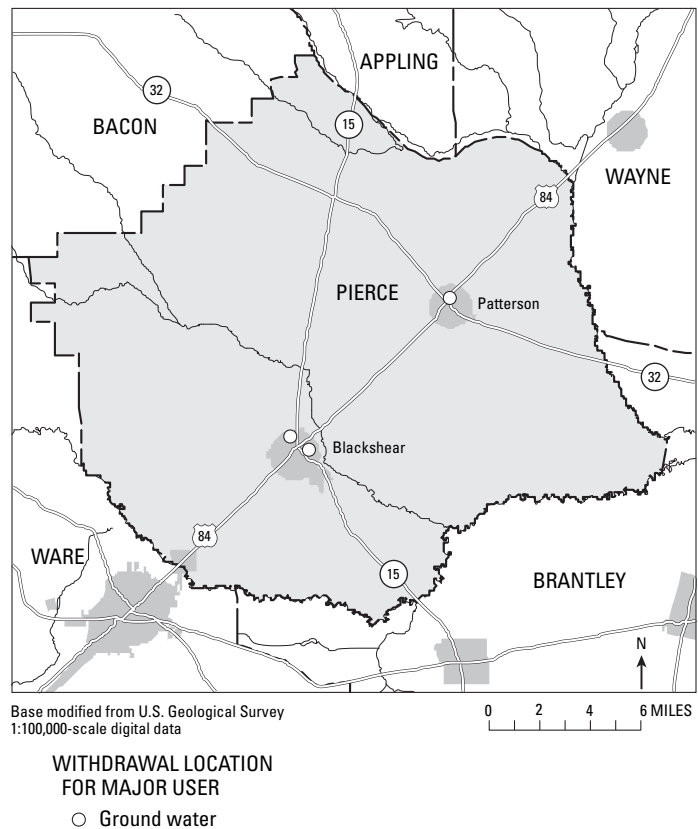
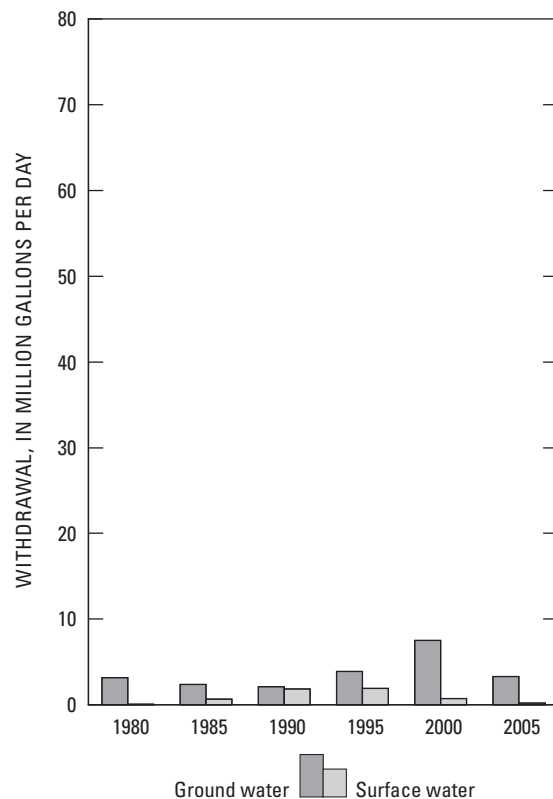
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.59	0.92	0.02	1.74	0.02	0.00	3.29
Surface Water	0.00	0.00	0.00	0.12	0.08	0.00	0.20
TOTALS	0.59	0.92	0.02	1.86	0.10	0.00	3.49

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Blackshear	0.48	0.00
City of Patterson	0.05	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



PIKE COUNTY

Population: 16,128

Population served by public supply: 3,610

Acres irrigated: 200

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

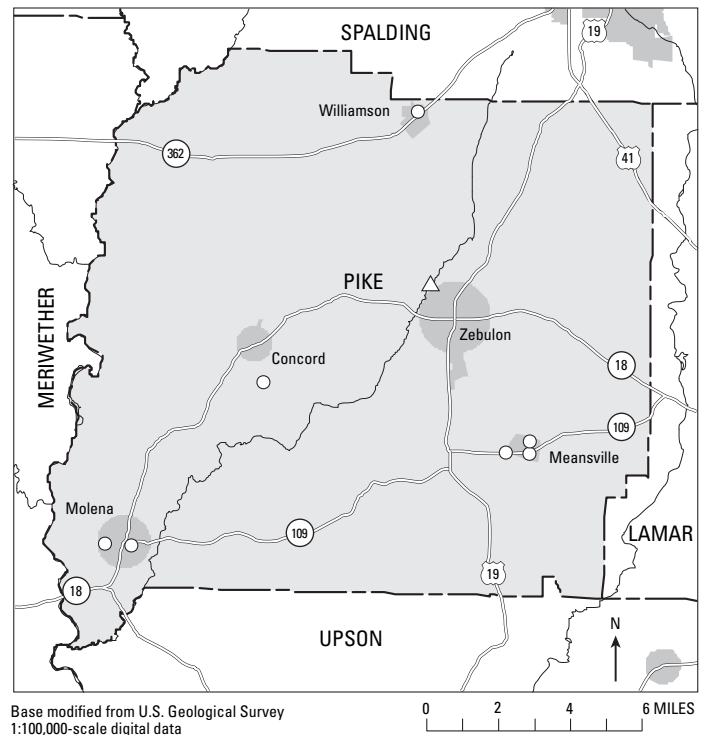
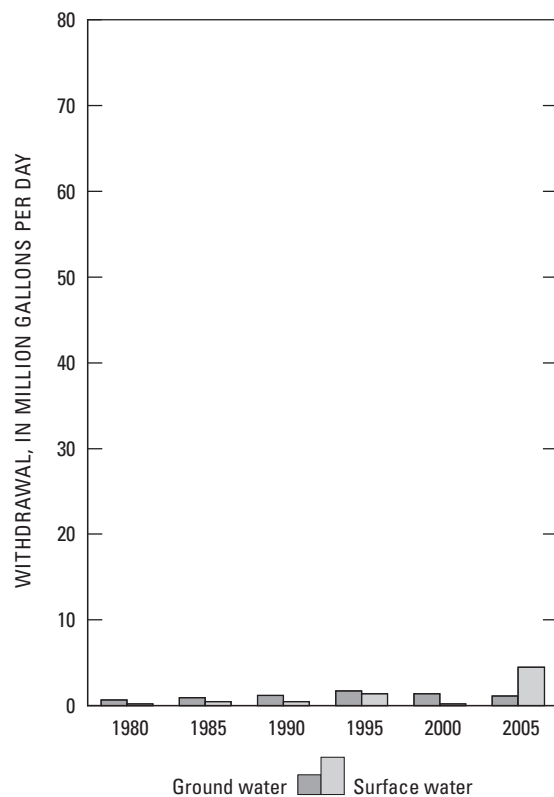
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.15	0.94	0.00	0.00	0.02	0.00	1.11
Surface Water	4.34	0.00	0.00	0.29	0.18	0.00	4.81
TOTALS	4.49	0.94	0.00	0.29	0.20	0.00	5.92

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Concord	0.07	0.00
City of Meansville	0.02	0.00
City of Molena	0.03	0.00
Town of Williamson	0.03	0.00
City of Griffin (water source located in Spalding County)	0.00	4.34

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

POLK COUNTY

Population: 40,479

Population served by public supply: 35,620

Acres irrigated: 520

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

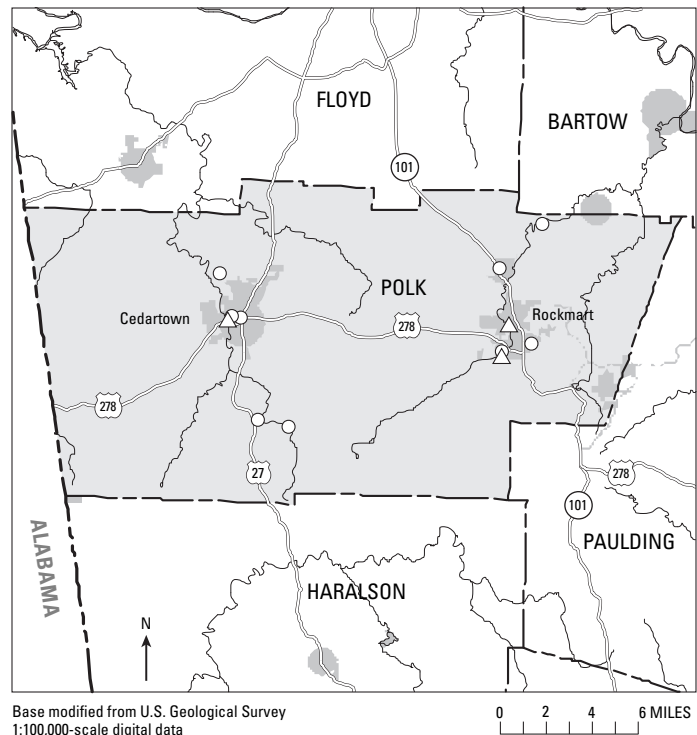
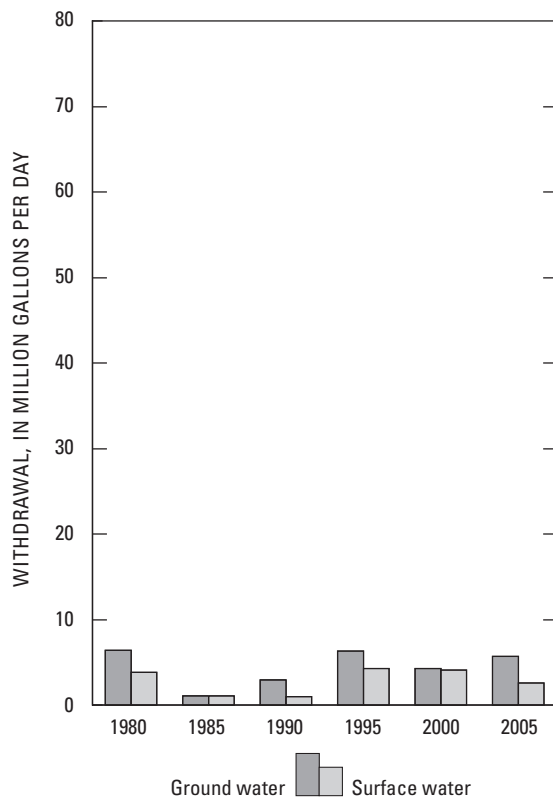
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.75	0.36	1.55	0.11	0.01	0.00	5.78
Surface Water	2.21	0.00	0.09	0.62	0.16	0.00	3.08
TOTALS	5.96	0.36	1.64	0.73	0.17	0.00	8.86

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cedartown	2.27	0.00
Polk County Water Authority	0.00	2.22
City of Rockmart	1.48	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
28 - Chemicals	1.35	0.00
29 - Petroleum	0.00	0.09

**WITHDRAWAL LOCATION FOR MAJOR USER**

- Ground water
- △ Surface water

PULASKI COUNTY

Population: 9,737

Population served by public supply: 5,870

Acres irrigated: 28,000

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

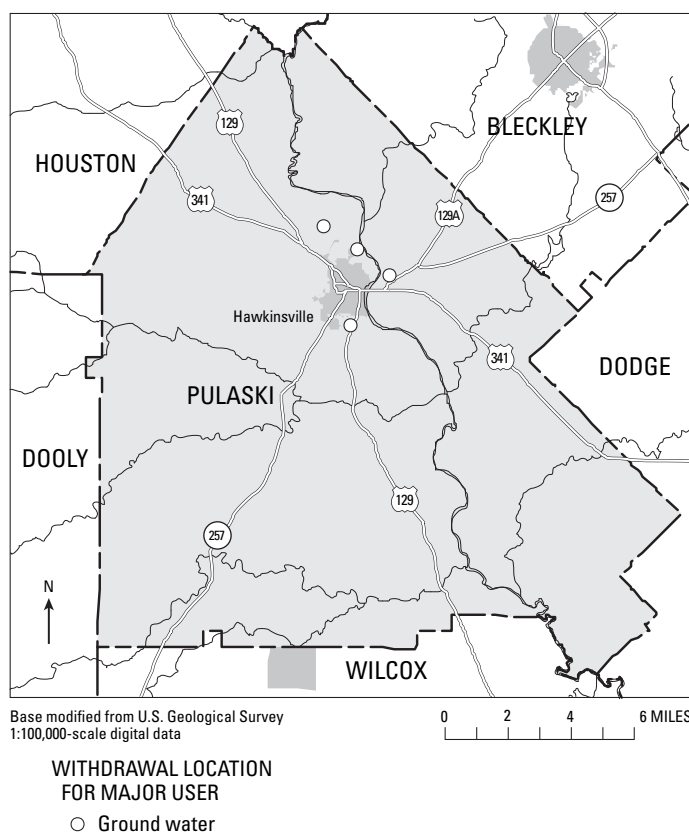
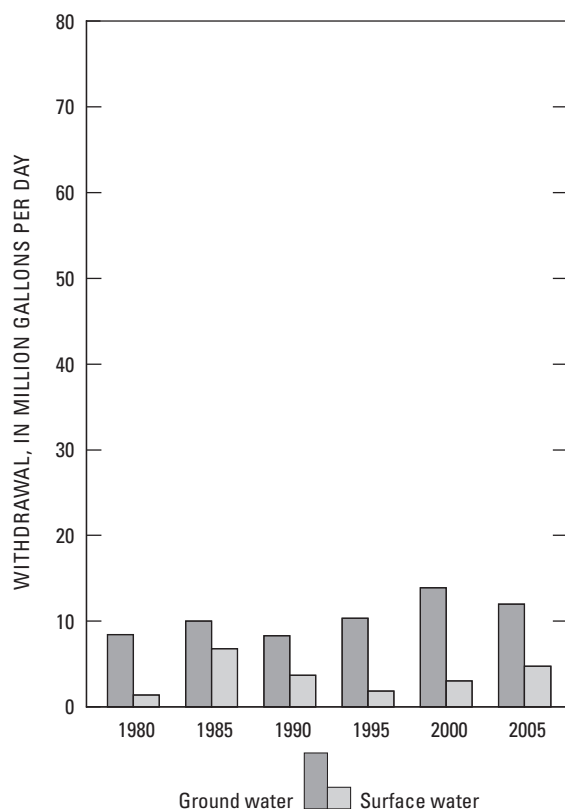
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.85	0.29	0.65	10.17	0.01	0.00	11.97
Surface Water	0.00	0.00	0.00	4.74	0.03	0.00	4.77
TOTALS	0.85	0.29	0.65	14.91	0.04	0.00	16.74

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Hartford Water Authority	0.04	0.00
City of Hawkinsville	0.81	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
26 - Paper	0.65	0.00



PUTNAM COUNTY

Population: 19,829

Population served by public supply: 11,940

Acres irrigated: 1,380

Hydroelectric use (Mgal/d): 3,956.96

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

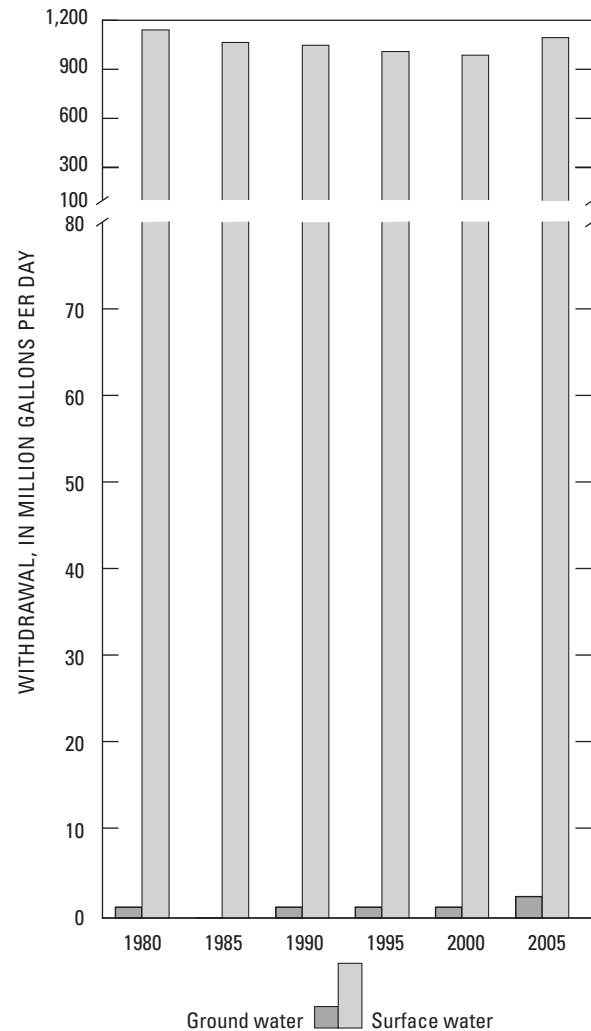
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.41	0.59	0.07	1.01	0.00	0.00	2.08
Surface Water	0.80	0.00	0.00	1.88	0.39	1,092.00	1,095.07
TOTALS	1.21	0.59	0.07	2.89	0.39	1,092.00	1,097.15

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Eatonton	0.00	0.80

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

QUITMAN COUNTY

Population: 2,467

Population served by public supply: 1,900

Acres irrigated: 260

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

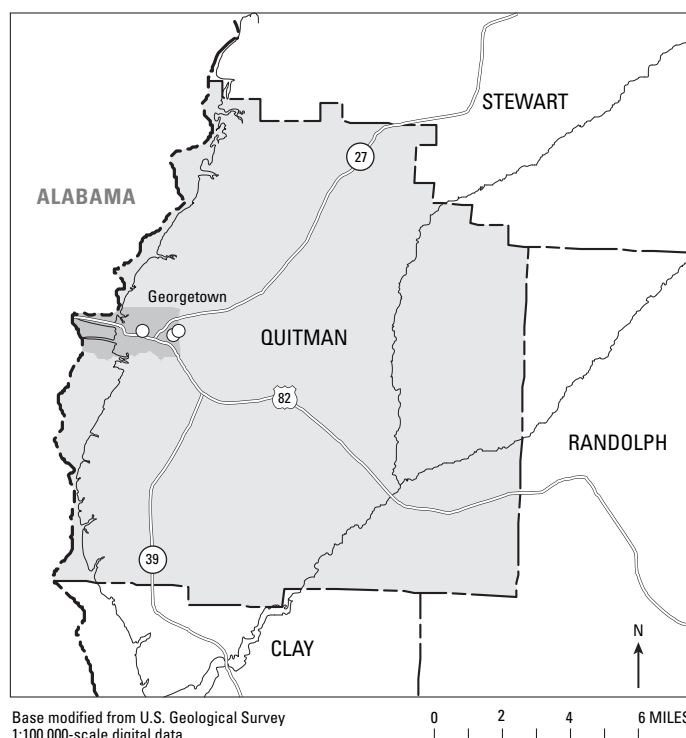
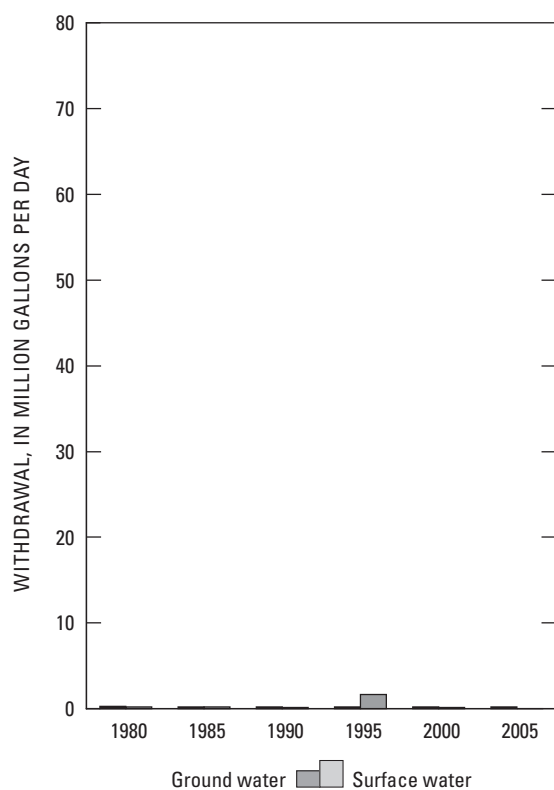
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.14	0.04	0.00	0.00	0.00	0.00	0.18
Surface Water	0.00	0.00	0.00	0.02	0.01	0.00	0.03
TOTALS	0.14	0.04	0.00	0.02	0.01	0.00	0.21

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Georgetown	0.07	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

RABUN COUNTY

Population: 16,087

Population served by public supply: 11,740

Acres irrigated: 480

Hydroelectric use (Mgal/d): 1,181.69



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

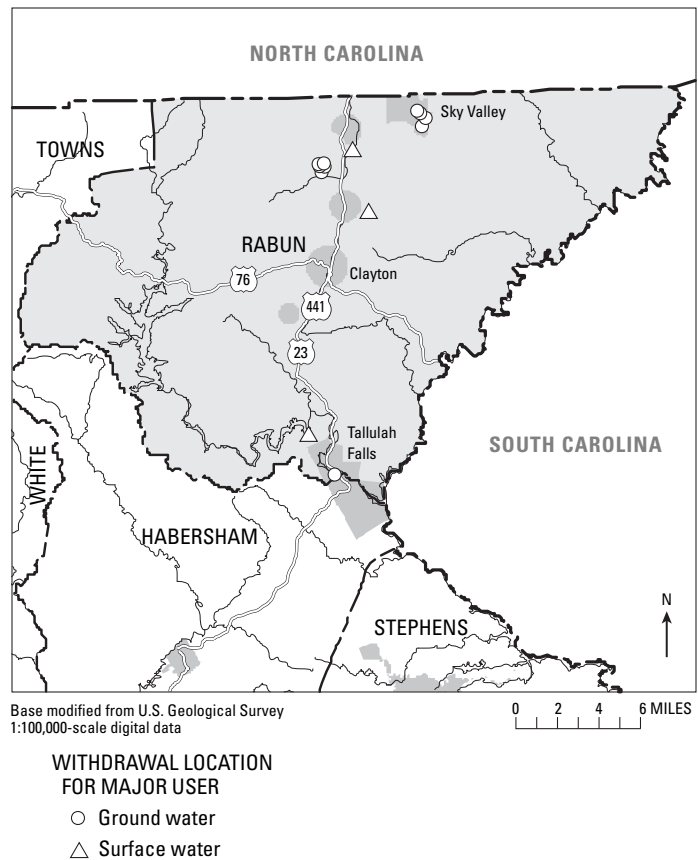
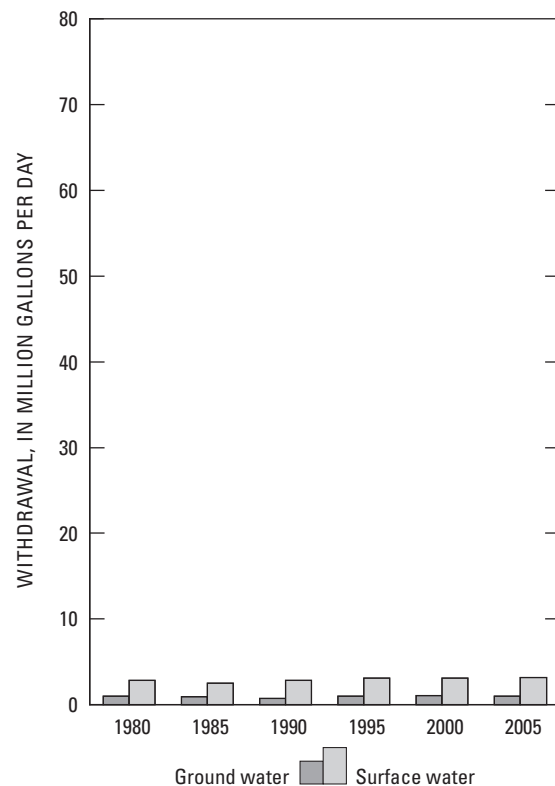
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.45	0.33	0.26	0.00	0.00	0.00	1.04
Surface Water	1.52	0.00	1.49	0.58	0.07	0.00	3.66
TOTALS	1.97	0.33	1.75	0.58	0.07	0.00	4.70

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Clayton	0.00	0.00
Town of Tallulah Falls	0.01	0.00
City of Sky Valley Resort	0.30	0.03
Clayton–Rabun County Water & Sewer Authority	0.00	1.49

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.11	1.49



RANDOLPH COUNTY

Population: 7,310

Population served by public supply: 5,350

Acres irrigated: 26,210

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

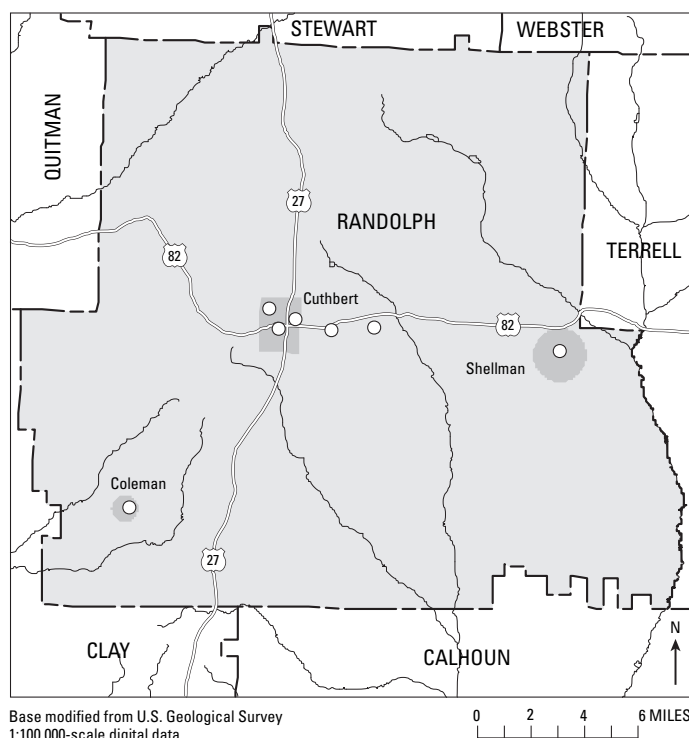
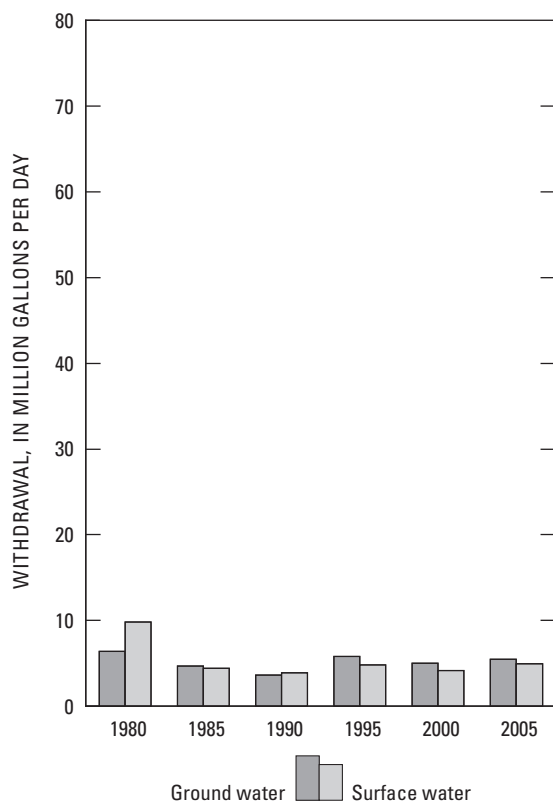
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.96	0.15	0.06	4.28	0.01	0.00	5.46
Surface Water	0.00	0.00	0.00	4.92	0.04	0.00	4.96
TOTALS	0.96	0.15	0.06	9.20	0.05	0.00	10.42

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Coleman	0.02	0.00
City of Cuthbert	0.69	0.00
City of Shellman	0.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.06	0.00



RICHMOND COUNTY

Population: 195,769

Population served by public supply: 191,860

Acres irrigated: 1,250

Hydroelectric use (Mgal/d): 1,573.96



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

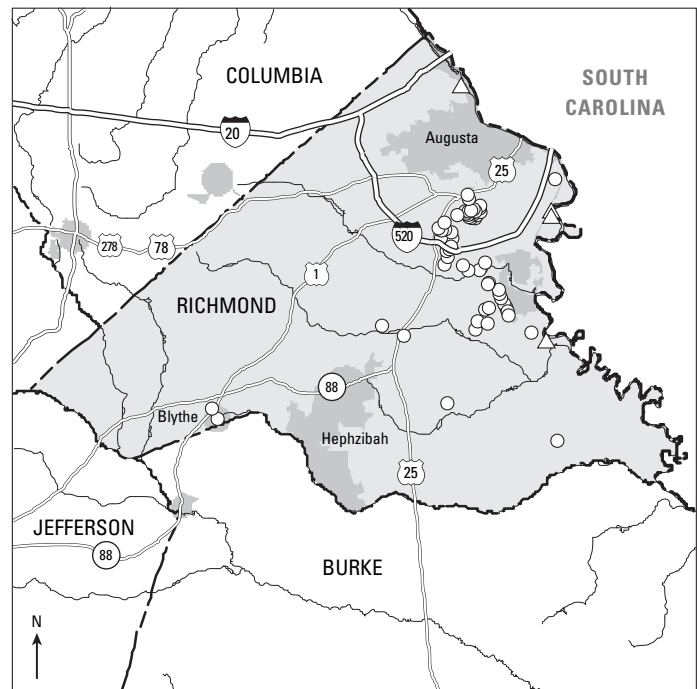
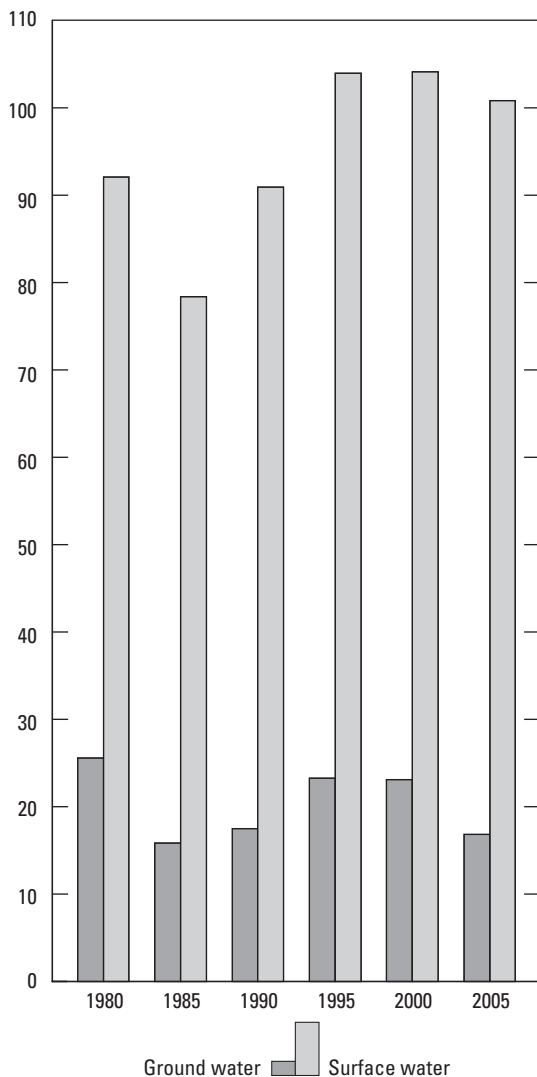
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	8.97	0.51	5.07	2.45	0.01	0.00	17.01
Surface Water	34.16	1.93	64.21	0.54	0.02	0.00	100.86
TOTALS	43.13	2.44	69.28	2.99	0.03	0.00	117.87

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Augusta–Richmond County Water System	0.00	4.26
Town of Blythe	0.07	0.00
Town of Hepzibah	0.34	0.00
Augusta–Richmond Utilities	8.42	29.69

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
14 - Mining	0.02	0.00
22 - Textiles	0.09	0.50
26 - Paper	0.00	53.76
28 - Chemicals	0.60	9.96
32 - Stone, clay	0.61	0.00



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1:100,000-scale digital data

0 5 10 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

ROCKDALE COUNTY

Population: 78,545

Population served by public supply: 58,990

Acres irrigated: 500

Hydroelectric use (Mgal/d): 41.96



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

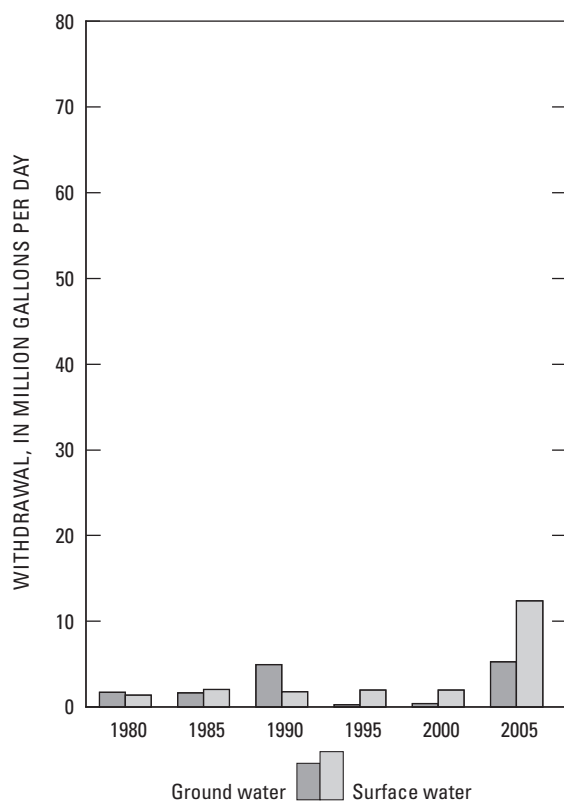
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.18	4.97	0.15	0.00	0.00	0.00	5.30
Surface Water	12.36	0.00	0.00	0.31	0.02	0.00	12.69
TOTALS	12.54	4.97	0.15	0.31	0.02	0.00	17.99

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Conyers	0.00	1.66
Milstead Water System	0.11	0.00
Rockdale County Board of Commissioners	0.00	10.70

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



SCHLEY COUNTY

Population: 4,122

Population served by public supply: 3,450

Acres irrigated: 990

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

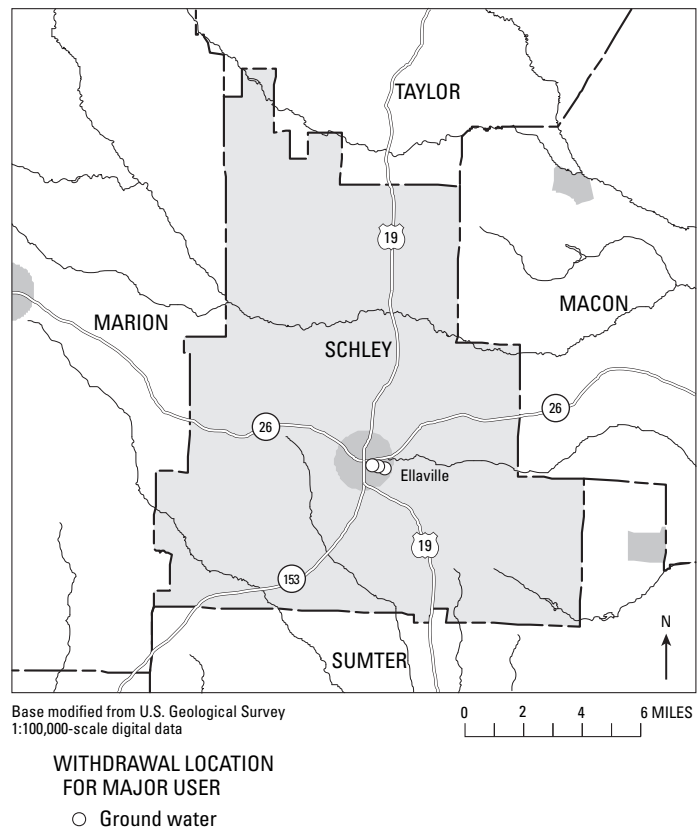
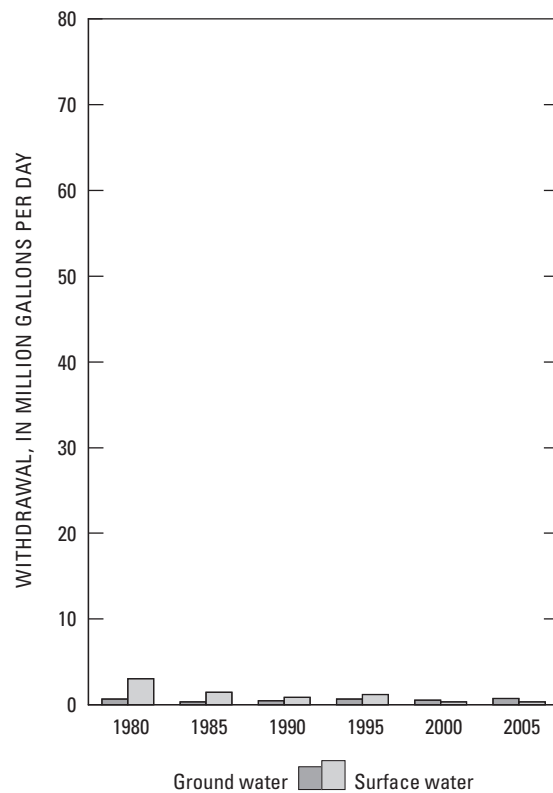
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.63	0.05	0.00	0.03	0.01	0.00	0.72
Surface Water	0.00	0.00	0.00	0.25	0.07	0.00	0.32
TOTALS	0.63	0.05	0.00	0.28	0.08	0.00	1.04

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Ellaville	0.26	0.00
Schley County Board of Commissioners	0.37	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



SCREVEN COUNTY

Population: 15,430

Population served by public supply: 6,340

Acres irrigated: 25,000

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

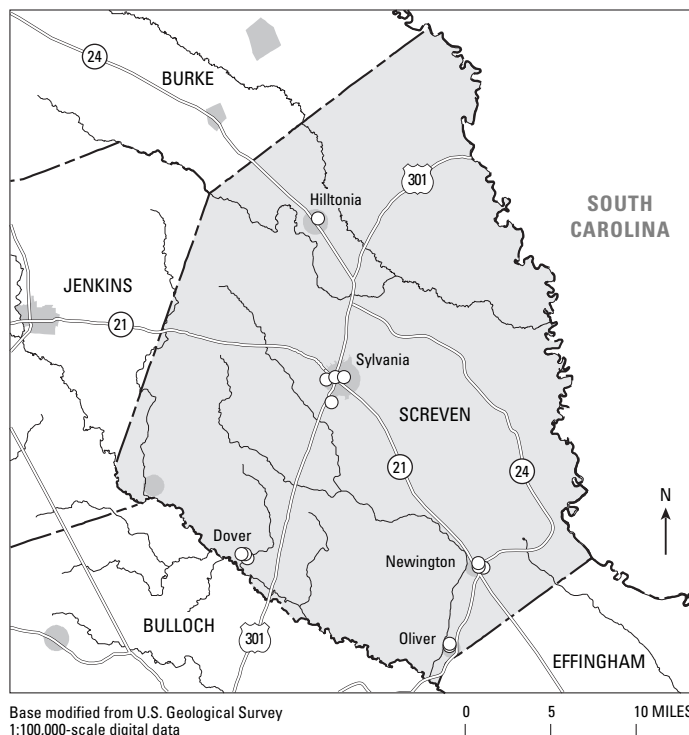
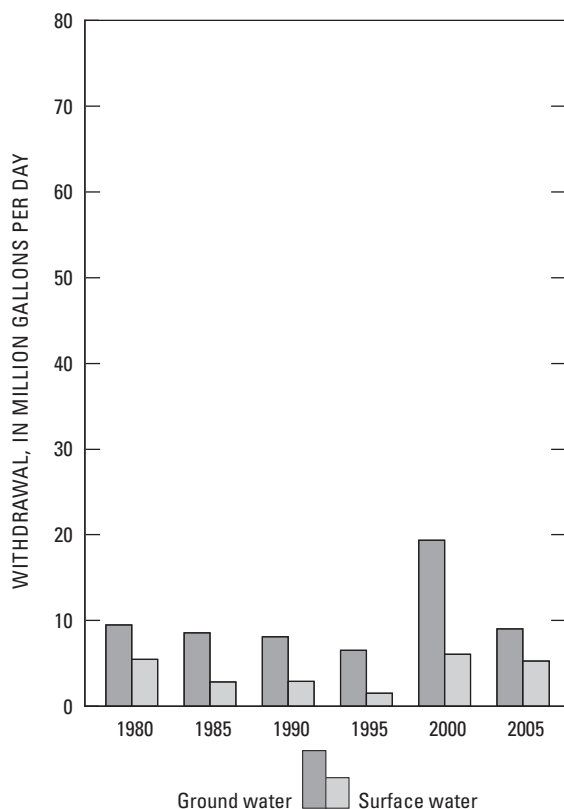
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.02	0.68	1.73	5.56	0.05	0.00	9.04
Surface Water	0.00	0.00	0.00	5.23	0.06	0.00	5.29
TOTALS	1.02	0.68	1.73	10.79	0.11	0.00	14.33

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hiltonia	0.07	0.00
Town of Newington	0.03	0.00
City of Oliver	0.03	0.00
City of Sylvania	0.81	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	1.73	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

SEMINOLE COUNTY

Population: 9,226

Population served by public supply: 3,970

Acres irrigated: 57,550

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

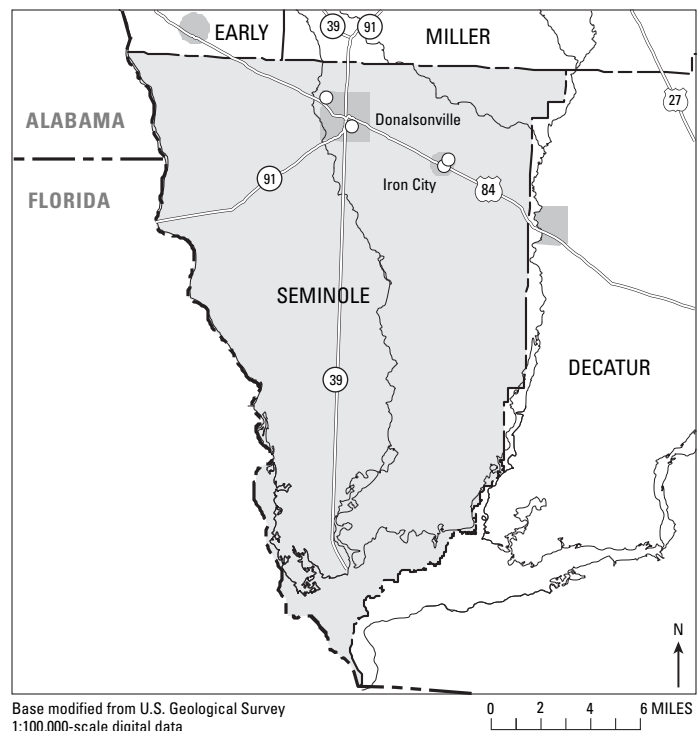
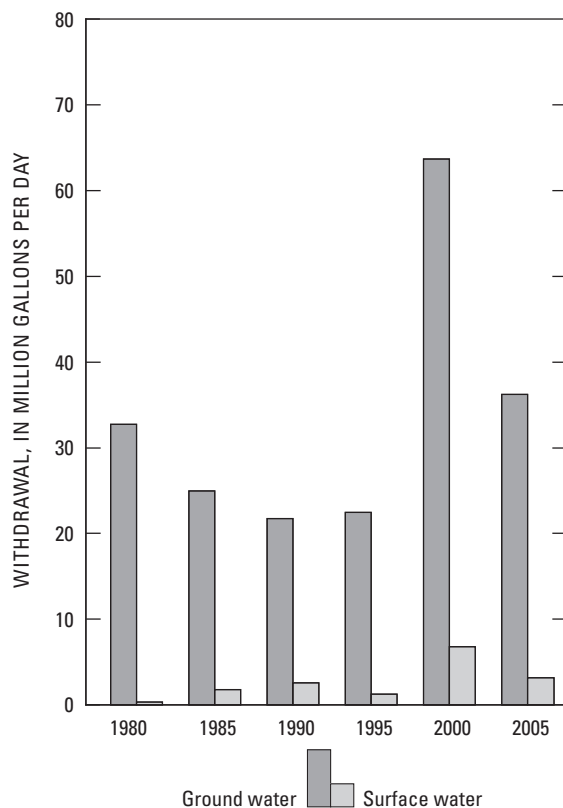
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.63	0.39	0.00	35.13	0.10	0.00	36.25
Surface Water	0.00	0.00	0.00	3.17	0.02	0.00	3.19
TOTALS	0.63	0.39	0.00	38.30	0.12	0.00	39.44

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Donalsonville	0.56	0.00
Town of Iron City	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		

**WITHDRAWAL LOCATION FOR MAJOR USER**

- Ground water

SPALDING COUNTY

Population: 61,289

Population served by public supply: 49,640

Acres irrigated: 530

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

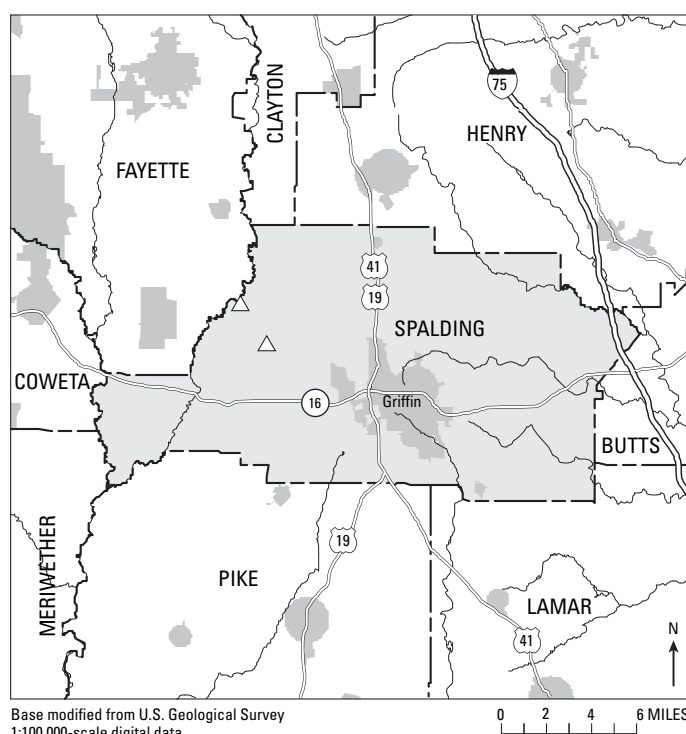
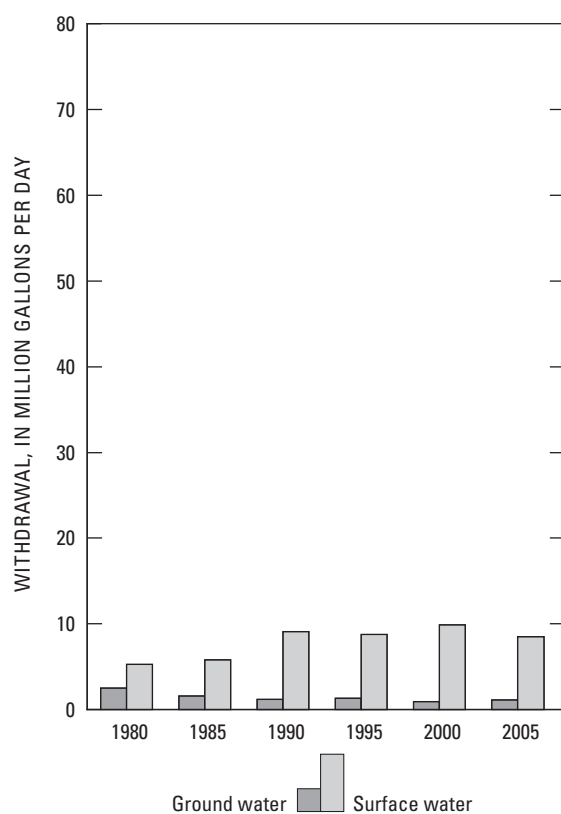
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.10	0.87	0.21	0.00	0.00	0.00	1.18
Surface Water	7.97	0.00	0.00	0.81	0.07	0.00	8.85
TOTALS	8.07	0.87	0.21	0.81	0.07	0.00	10.03

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Griffin	0.00	7.97

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

△ Surface water

STEPHENS COUNTY

Population: 25,060

Population served by public supply: 22,550

Acres irrigated: 120

Hydroelectric use (Mgal/d): 1,077.19

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

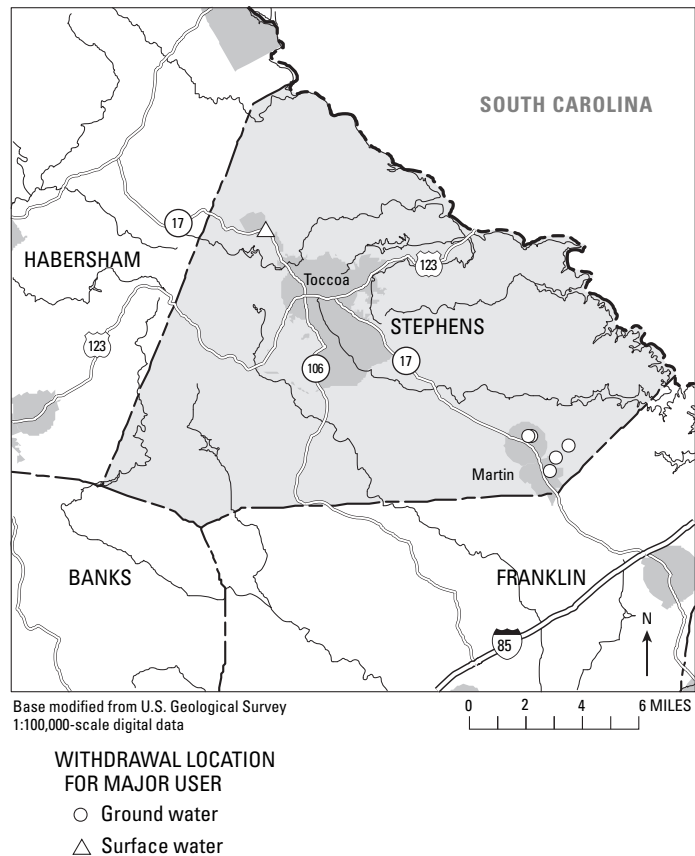
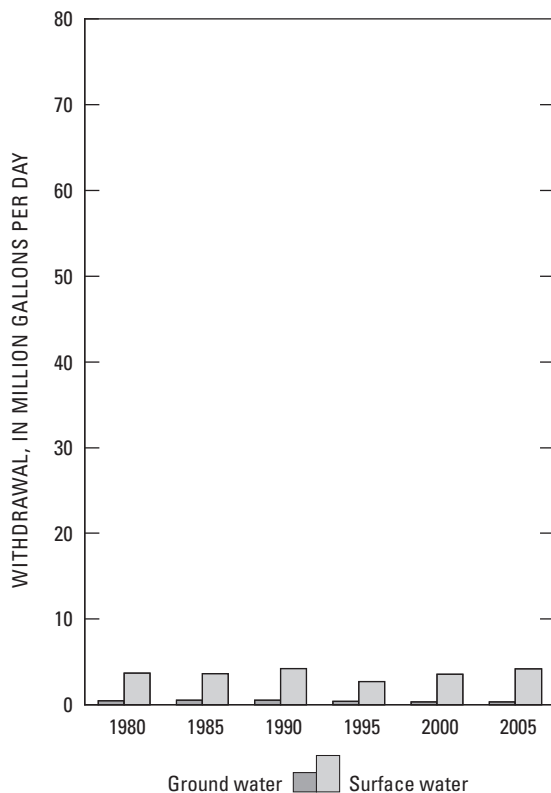
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.09	0.19	0.11	0.00	0.00	0.00	0.39
Surface Water	3.88	0.00	0.00	0.07	0.23	0.00	4.18
TOTALS	3.97	0.19	0.11	0.07	0.23	0.00	4.57

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Martin	0.08	0.00
City of Toccoa	0.00	3.88

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



STEWART COUNTY

Population: 4,882

Population served by public supply: 4,350

Acres irrigated: 2,210

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

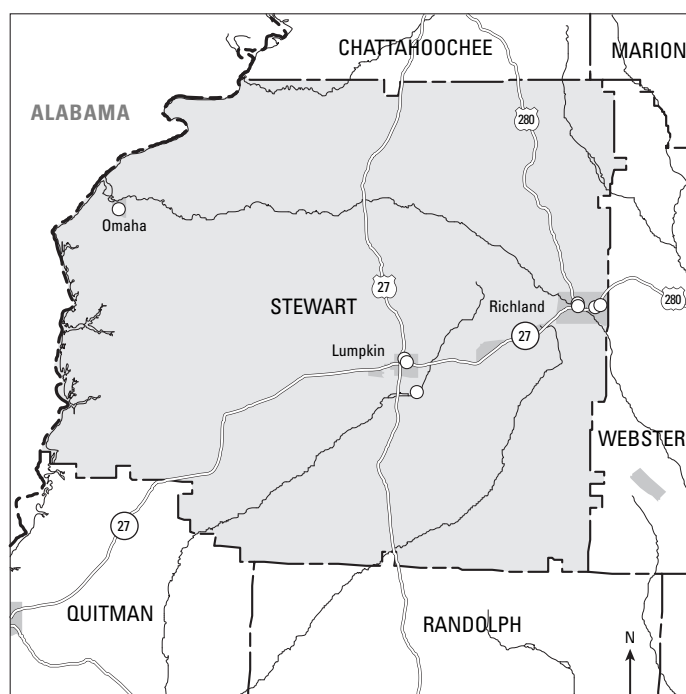
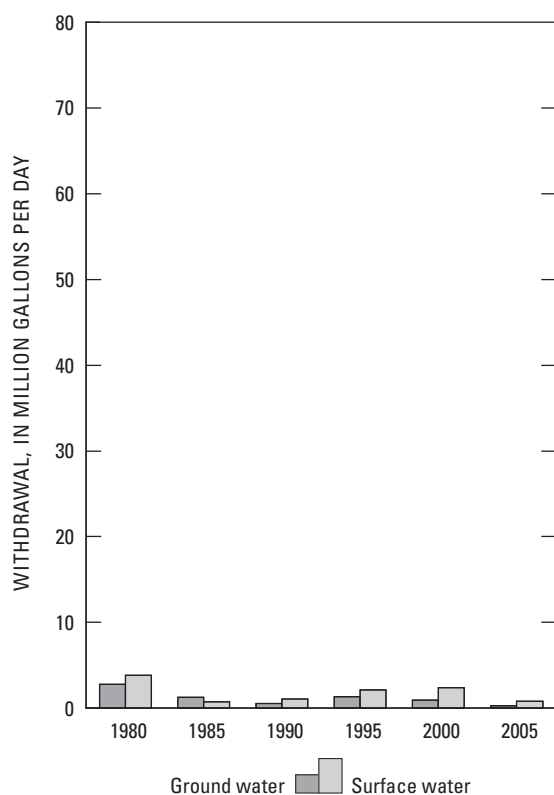
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.22	0.04	0.00	0.00	0.03	0.00	0.29
Surface Water	0.00	0.00	0.00	0.78	0.03	0.00	0.81
TOTALS	0.22	0.04	0.00	0.78	0.06	0.00	1.10

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Omaha	0.02	0.00
City of Lumpkin	0.13	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

SUMTER COUNTY

Population: 32,912

Population served by public supply: 21,320

Acres irrigated: 52,550

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

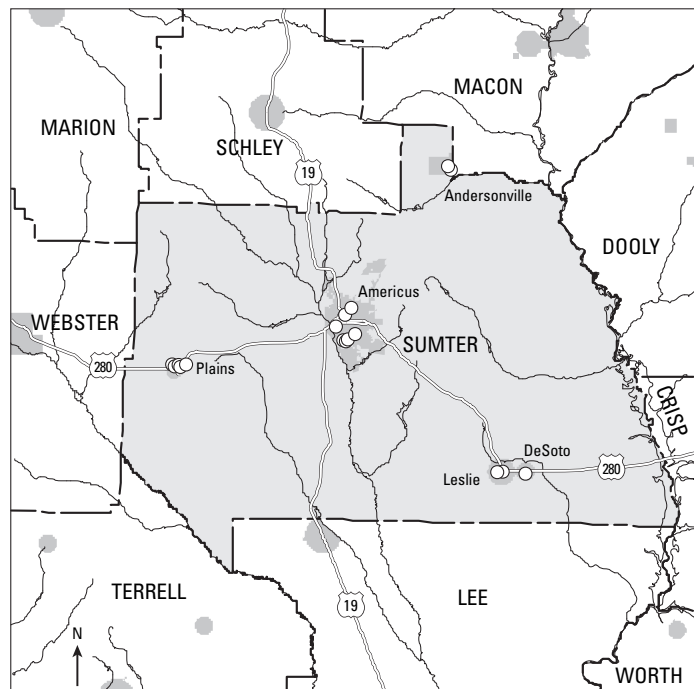
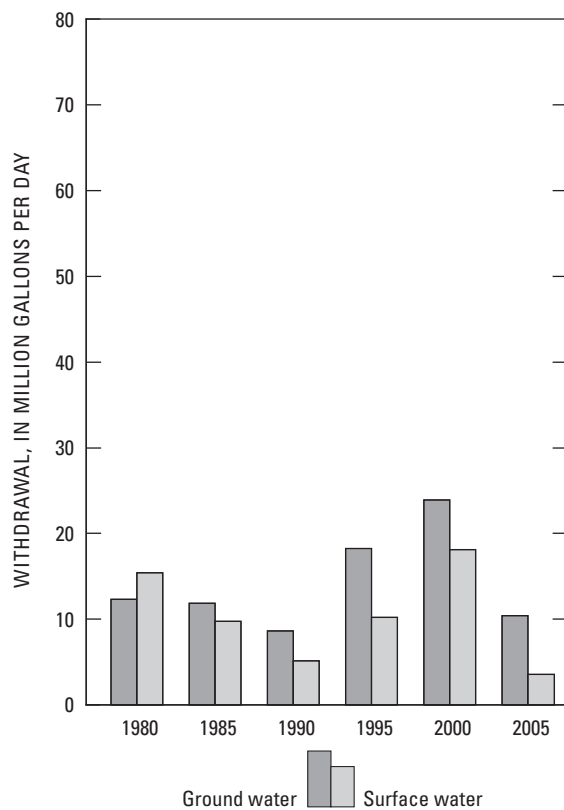
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.05	0.87	0.71	5.78	0.05	0.00	10.46
Surface Water	0.00	0.00	0.00	3.32	0.18	0.00	3.50
TOTALS	3.05	0.87	0.71	9.10	0.23	0.00	13.96

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Village of Andersonville	0.03	0.00
City of Americus	2.87	0.00
Village of Desoto	0.03	0.00
Village of Leslie	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.50	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

TALBOT COUNTY

Population: 6,709

Population served by public supply: 4,840

Acres irrigated: 0

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

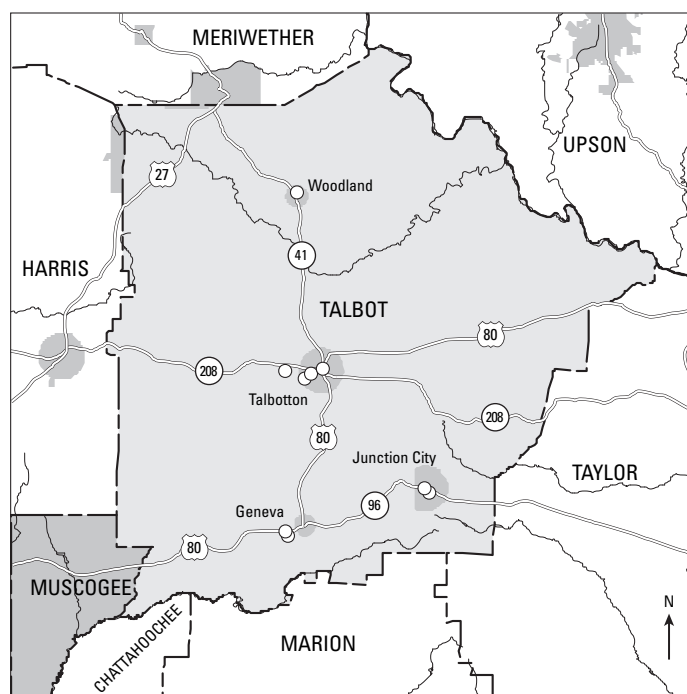
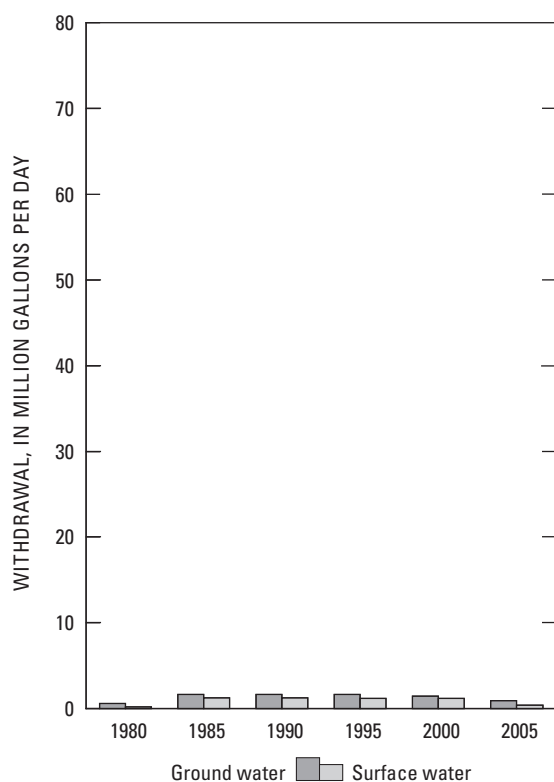
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.18	0.14	0.90	0.00	0.00	0.00	1.22
Surface Water	0.00	0.00	0.01	0.00	0.14	0.00	0.15
TOTALS	0.18	0.14	0.91	0.00	0.14	0.00	1.37

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Geneva	0.02	0.00
Town of Junction City	0.01	0.00
City of Talbotton	0.09	0.00
City of Woodland	0.05	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TALIAFERRO COUNTY

Population: 1,826

Population served by public supply: 700

Acres irrigated: 0

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

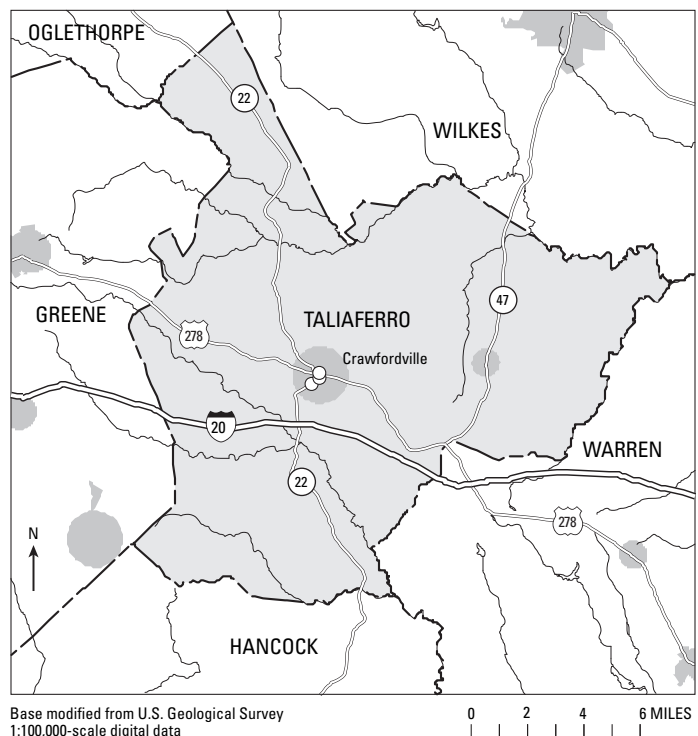
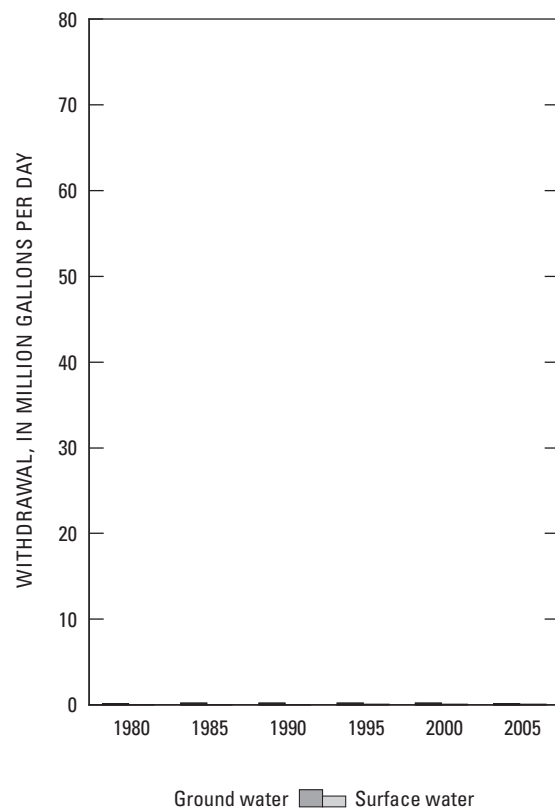
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.05	0.08	0.00	0.00	0.00	0.00	0.13
Surface Water	0.00	0.00	0.00	0.00	0.06	0.00	0.06
TOTALS	0.05	0.08	0.00	0.00	0.06	0.00	0.19

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Crawfordville	0.05	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



TATTNALL COUNTY

Population: 133,211

Population served by public supply: 9,270

Acres irrigated: 26,580

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

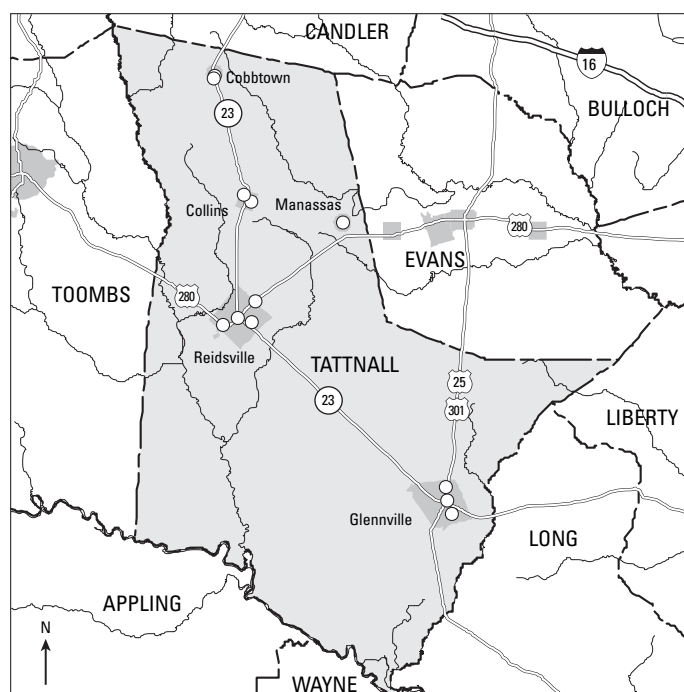
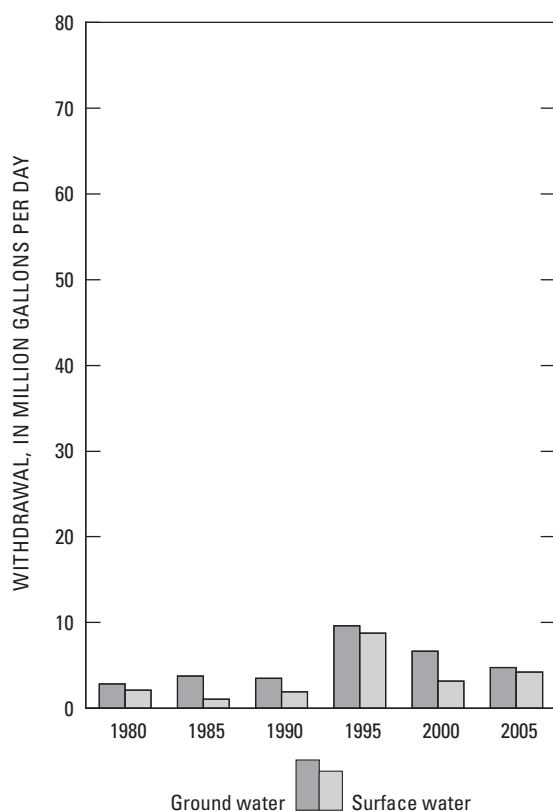
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.12	1.80	0.09	1.69	0.06	0.00	4.76
Surface Water	0.00	0.00	0.00	3.71	0.51	0.00	4.22
TOTALS	1.12	1.80	0.09	5.40	0.57	0.00	8.98

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Cobbtown	0.05	0.00
City of Collins	0.04	0.00
City of Glennville	0.73	0.00
City of Manassas	0.01	0.00
City of Reidsville	0.28	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TAYLOR COUNTY

Population: 8,887

Population served by public supply: 4,700

Acres irrigated: 2,650

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

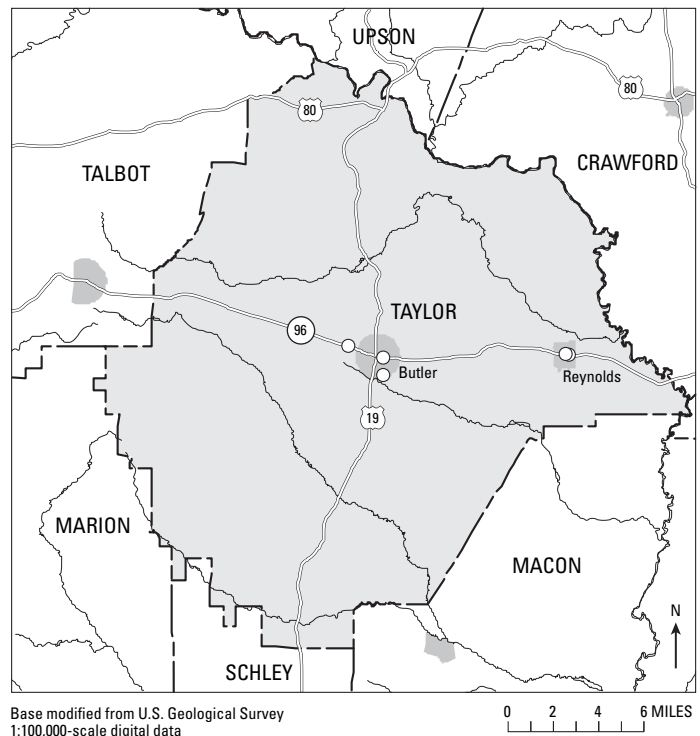
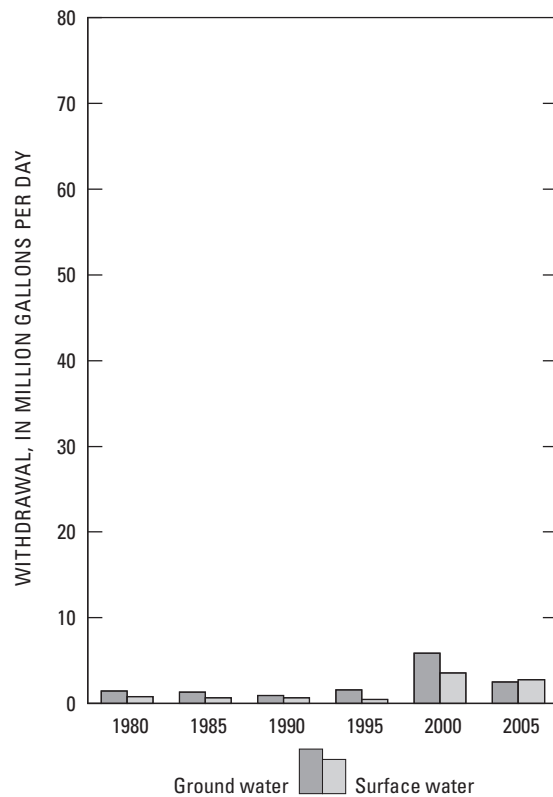
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.78	0.31	0.76	0.85	0.02	0.00	2.72
Surface Water	0.00	0.00	1.80	0.61	0.13	0.00	2.54
TOTALS	0.78	0.31	2.56	1.46	0.15	0.00	5.26

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Butler	0.61	0.00
Town of Reynolds	0.16	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.00	1.79



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TELFAIR COUNTY

Population: 13,205

Population served by public supply: 9,070

Acres irrigated: 15,000

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

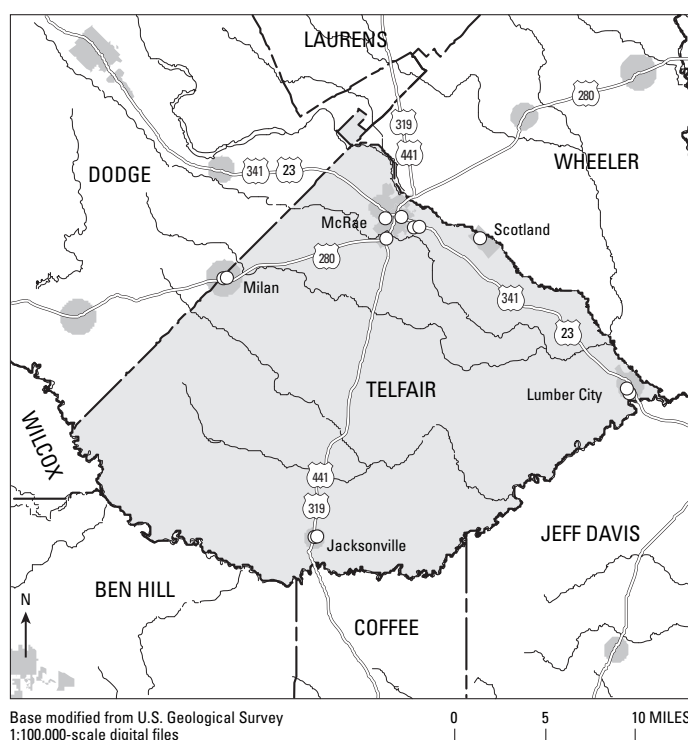
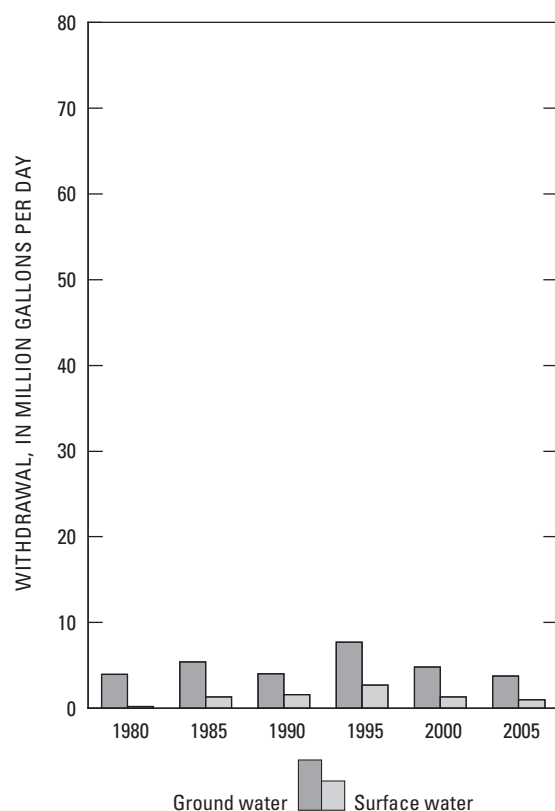
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.27	0.31	0.09	2.07	0.01	0.00	3.75
Surface Water	0.00	0.00	0.00	0.95	0.05	0.00	1.00
TOTALS	1.27	0.31	0.09	3.02	0.06	0.00	4.75

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Helena	0.31	0.00
Town of Jacksonville	0.02	0.00
City of Lumber City	0.19	0.00
City of McRae	0.65	0.00
Town of Milan	0.08	0.00
City of Scotland	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



TERRELL COUNTY

Population: 10,711

Population served by public supply: 7,550

Acres irrigated: 28,630

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

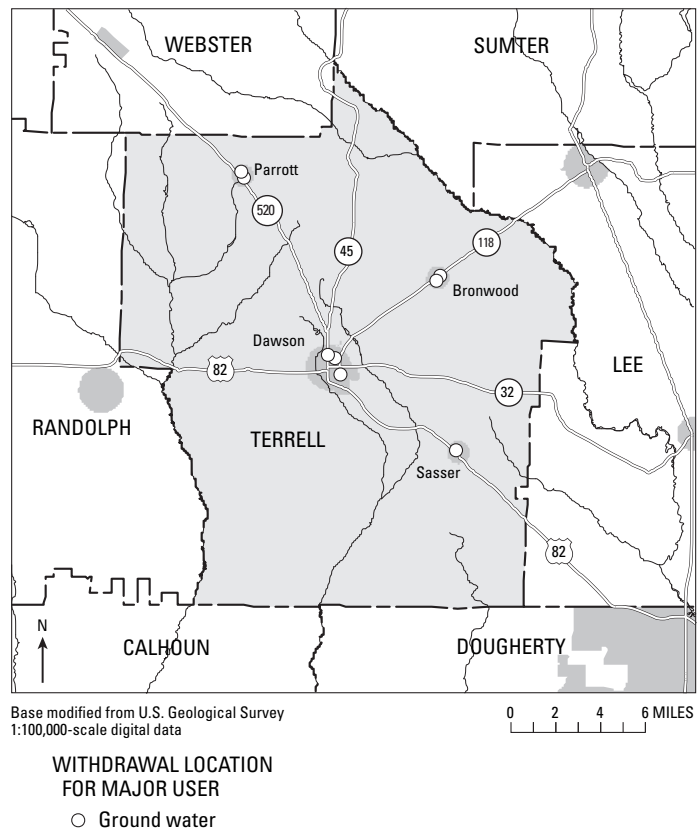
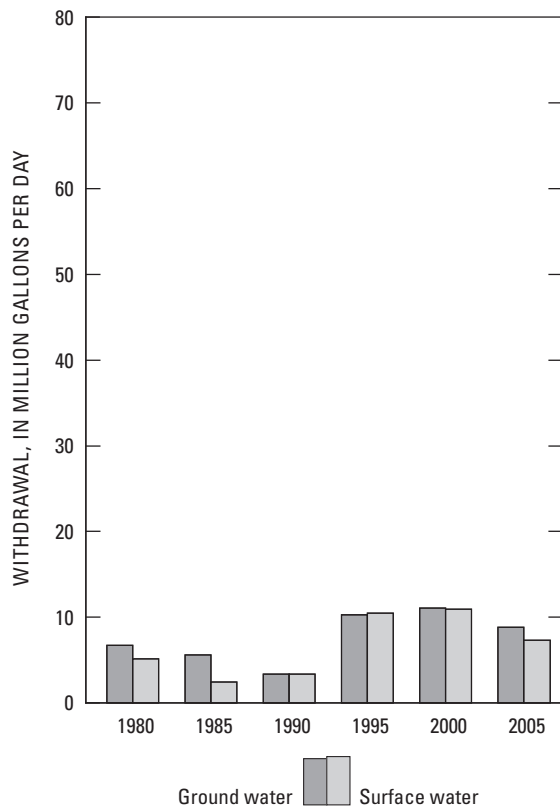
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.48	0.24	0.00	7.07	0.07	0.00	8.86
Surface Water	0.00	0.00	0.00	7.33	0.01	0.00	7.34
TOTALS	1.48	0.24	0.00	14.40	0.08	0.00	16.20

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Bronwood	0.04	0.00
City of Dawson	1.37	0.00
Town of Parrott	0.03	0.00
Town of Sasser	0.04	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



THOMAS COUNTY

Population: 44,692

Population served by public supply: 32,420

Acres irrigated: 13,950

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

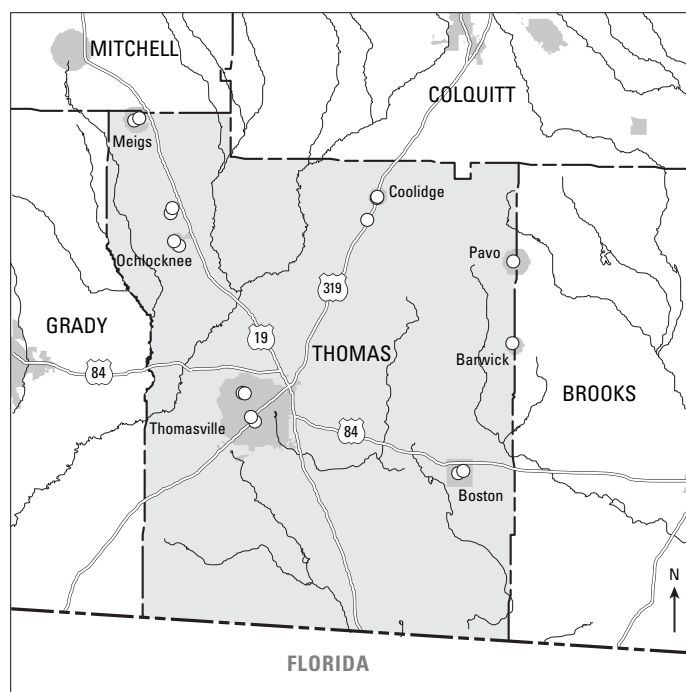
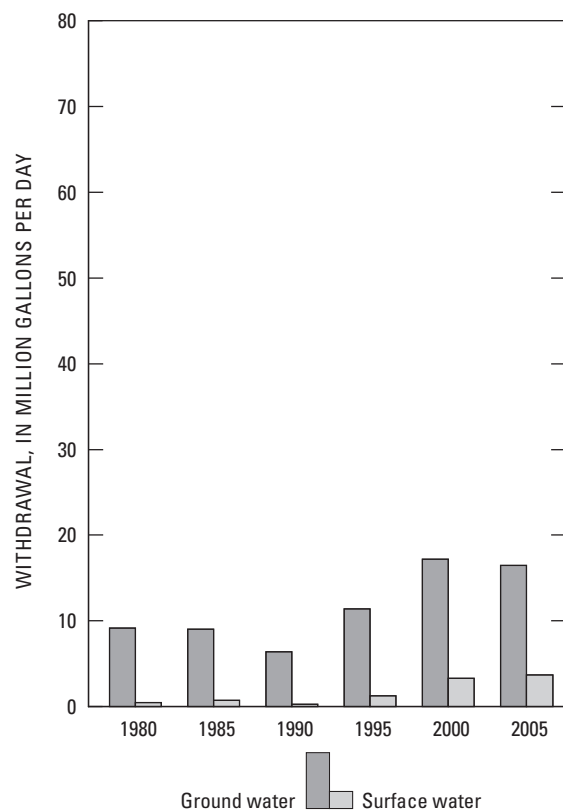
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	5.55	0.92	3.00	7.72	0.11	0.00	17.30
Surface Water	0.00	0.00	0.04	2.68	0.12	0.00	2.84
TOTALS	5.55	0.92	3.04	10.40	0.23	0.00	20.14

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Thomasville–Waverly	0.10	0.00
City of Boston	0.20	0.00
Town of Barwick	0.10	0.00
City of Coolidge	0.09	0.00
City of Meigs	0.14	0.00
Town of Ochlocknee	0.11	0.00
City of Pavo	0.12	0.00
City of Thomasville Water & Light Department	4.50	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
20 - Food	0.02	0.00
28 - Chemicals	0.12	0.00
32 - Stone, clay	0.10	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TIFT COUNTY

Population: 40,793

Population served by public supply: 29,180

Acres irrigated: 44,010

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

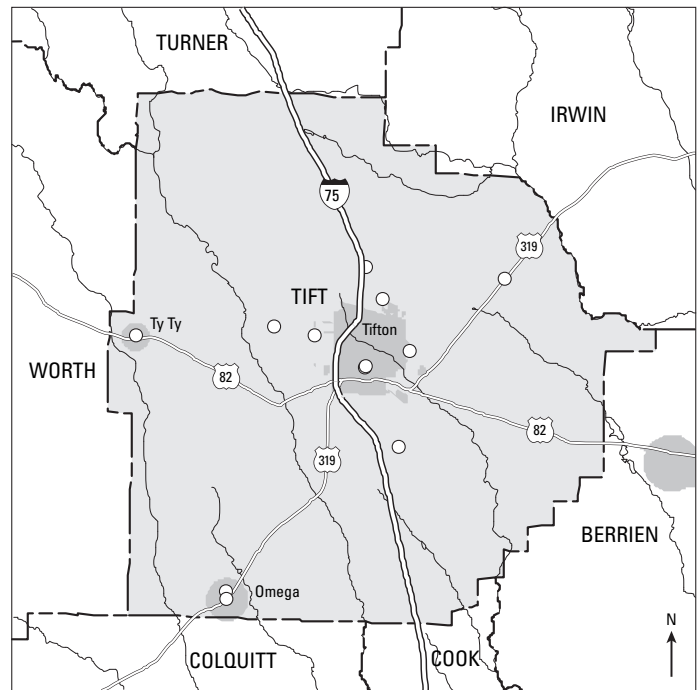
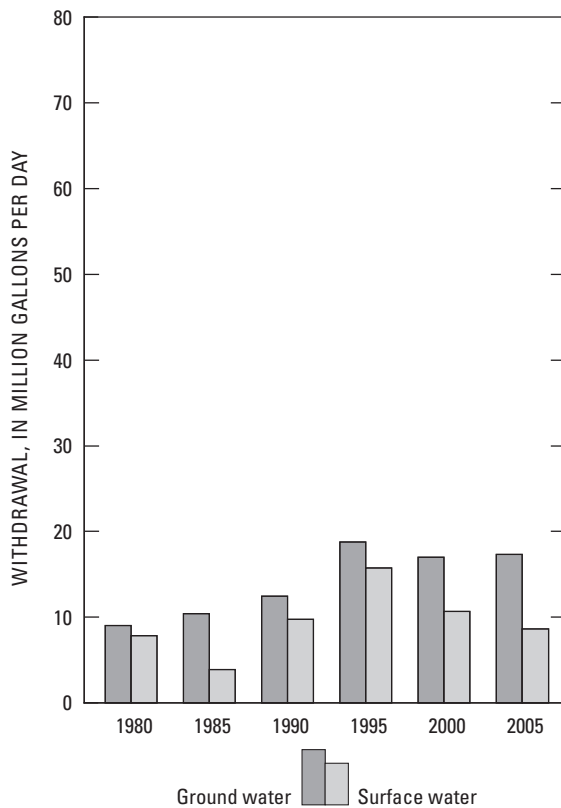
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	4.99	1.00	0.00	11.30	0.03	0.00	17.32
Surface Water	0.00	0.00	0.00	8.59	0.07	0.00	8.66
TOTALS	4.99	1.00	0.00	19.89	0.10	0.00	25.98

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Omega	0.13	0.00
City of Tifton	4.68	0.00
Town of Ty Ty	0.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TOOMBS COUNTY

Population: 27,274

Population served by public supply: 18,190

Acres irrigated: 14,800

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

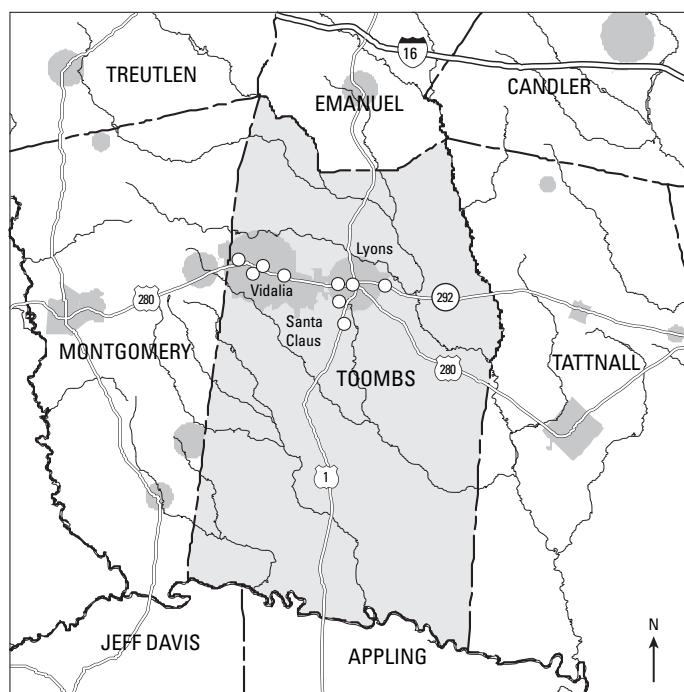
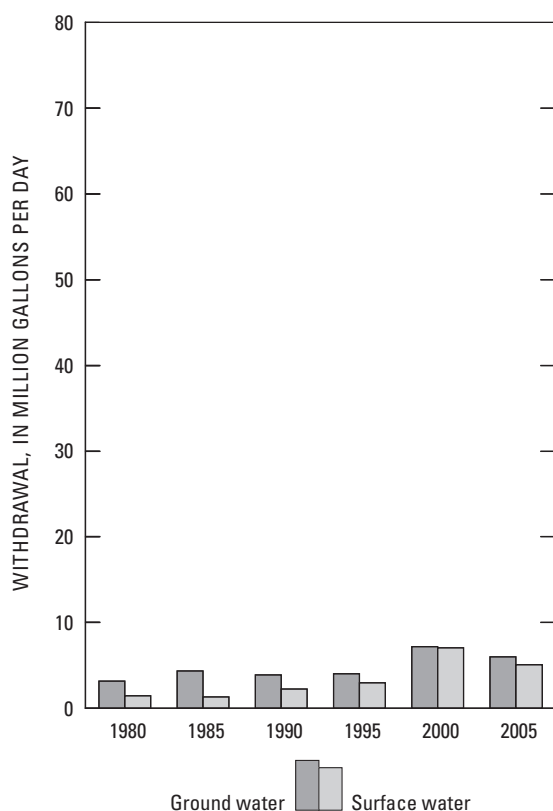
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	2.67	0.68	0.04	2.62	0.03	0.00	6.04
Surface Water	0.00	0.00	0.00	4.91	0.13	0.00	5.04
TOTALS	2.67	0.68	0.04	7.53	0.16	0.00	11.08

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Lyons	0.88	0.00
City of Santa Claus	0.03	0.00
City of Vidalia	1.70	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

TOWNS COUNTY

Population: 10,315

Population served by public supply: 9,590

Acres irrigated: 170

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

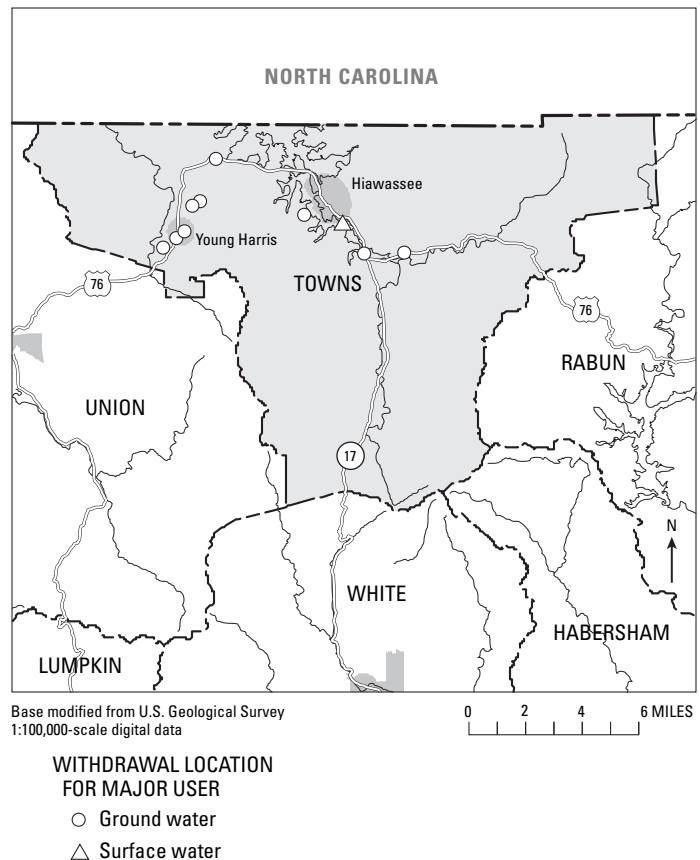
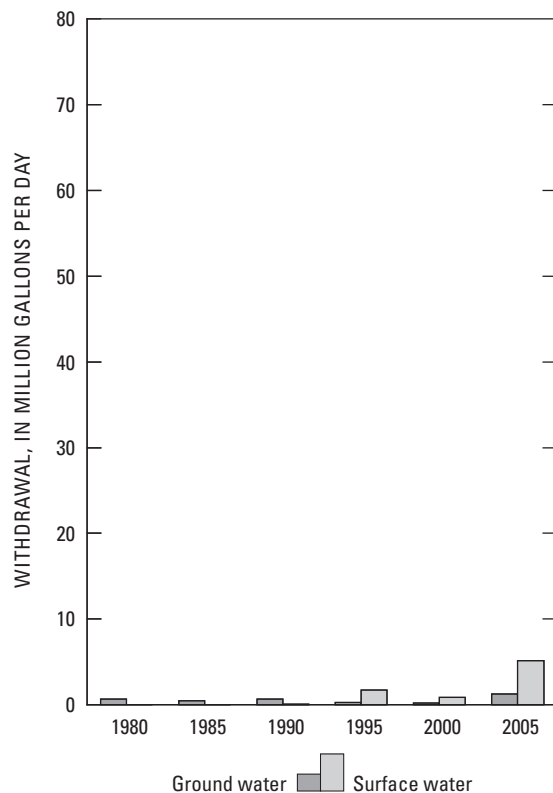
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.15	0.05	0.05	0.05	0.00	0.00	1.30
Surface Water	0.96	0.00	0.00	0.28	4.04	0.00	5.28
TOTALS	2.11	0.05	0.05	0.33	4.04	0.00	6.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Hiawassee	0.00	0.96
City of Young Harris	0.13	0.00
Towns County Water System	1.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



TREUTLEN COUNTY

Population: 6,753

Population served by public supply: 3,130

Acres irrigated: 1,350

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

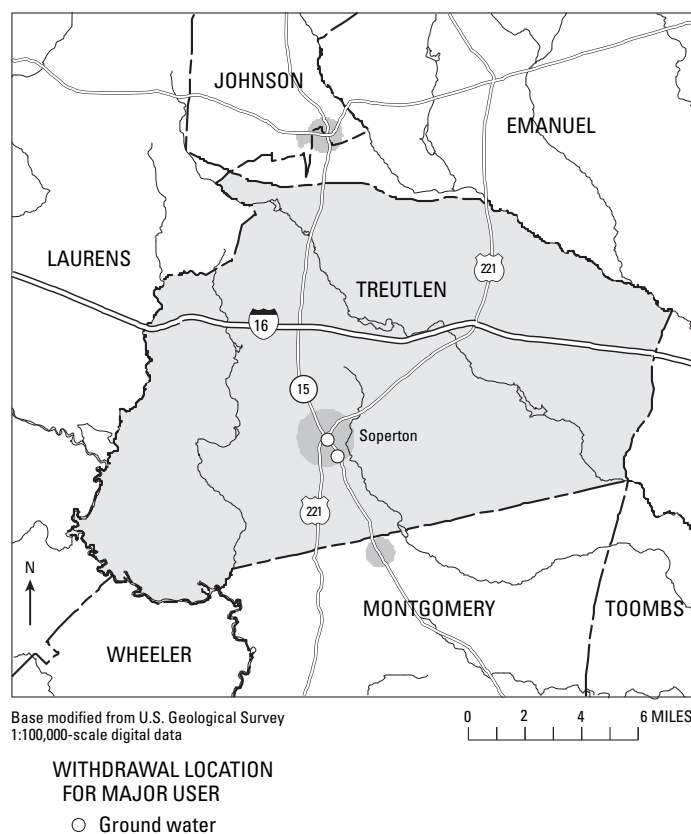
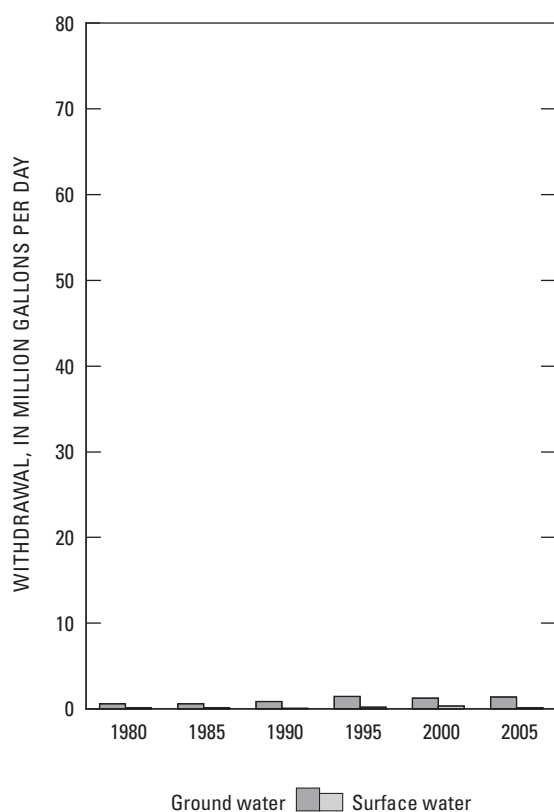
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.40	0.27	0.00	0.69	0.01	0.00	1.37
Surface Water	0.00	0.00	0.00	0.16	0.01	0.00	0.17
TOTALS	0.40	0.27	0.00	0.85	0.02	0.00	1.54

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Soperton	0.39	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



TROUP COUNTY

Population: 62,015

Population served by public supply: 50,170

Acres irrigated: 390

Hydroelectric use (Mgal/d): 2,793.93



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

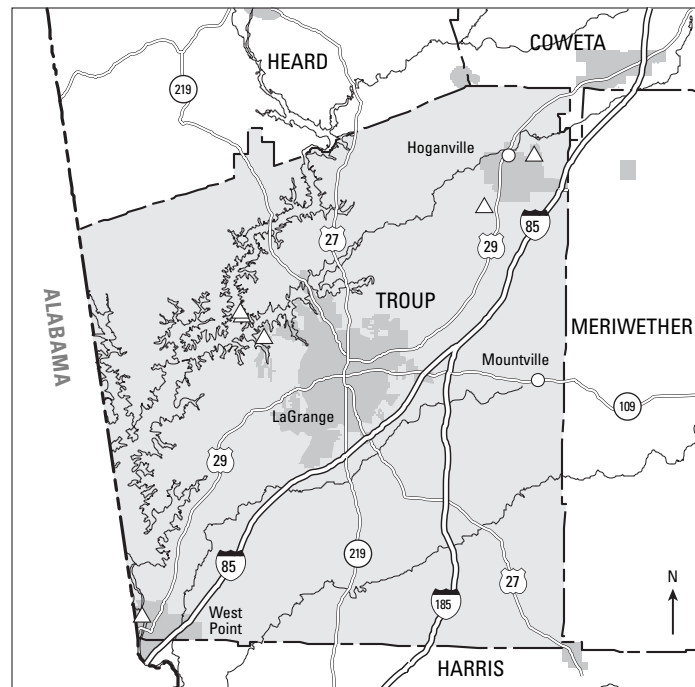
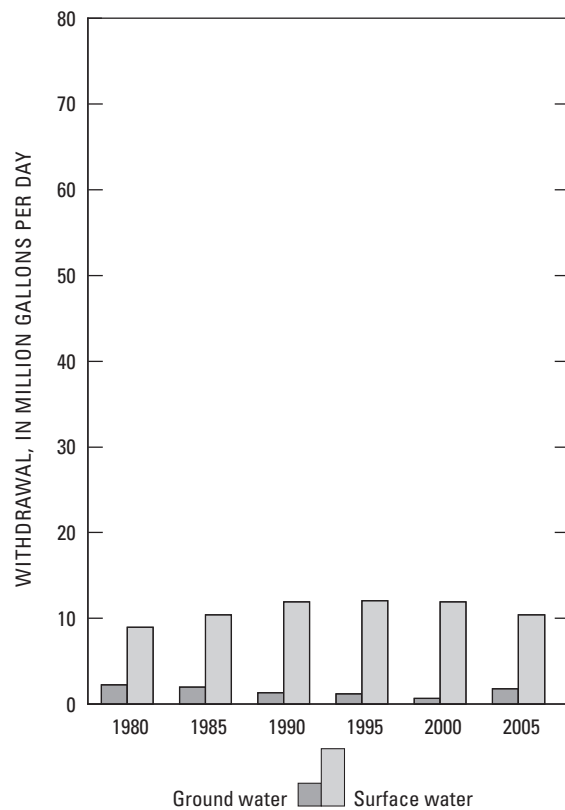
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.05	0.89	0.27	0.61	0.00	0.00	1.82
Surface Water	10.28	0.00	0.00	0.44	0.09	0.00	10.81
TOTALS	10.33	0.89	0.27	1.05	0.09	0.00	12.63

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Hogansville	0.00	0.42
City of Lagrange	0.00	9.20
Mountville Water Association	0.03	0.00
City of West Point	0.00	0.66

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.12	0.00



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

TURNER COUNTY

Population: 9,474

Population served by public supply: 6,280

Acres irrigated: 28,090

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

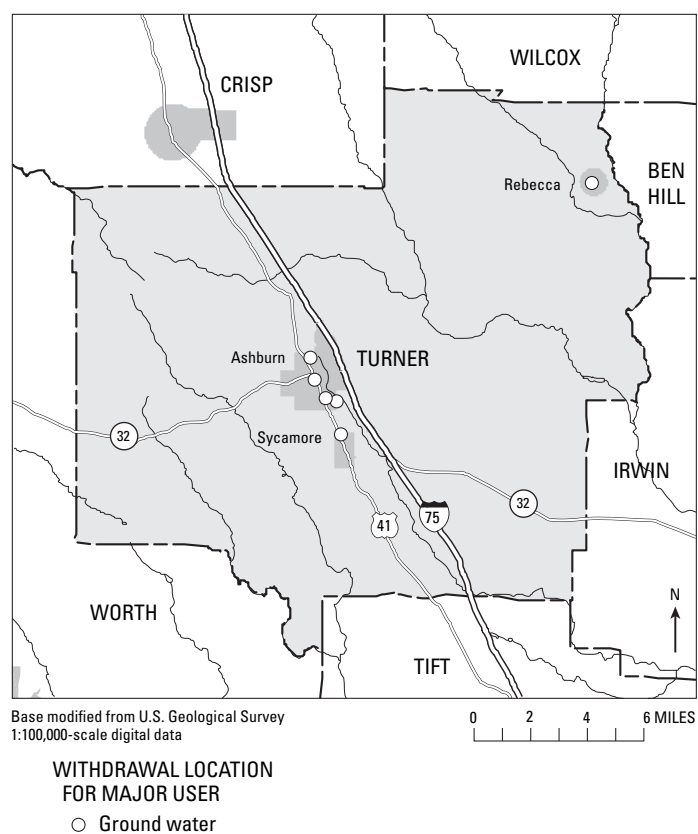
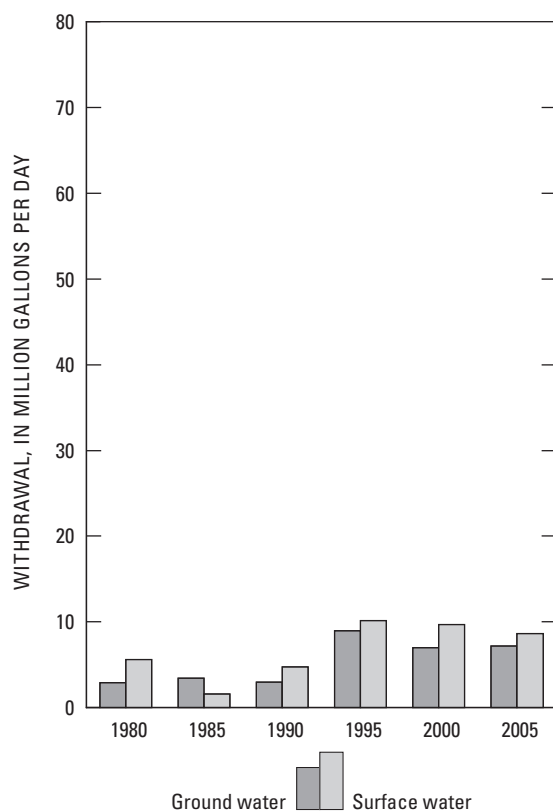
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.88	0.24	0.00	6.06	0.03	0.00	7.21
Surface Water	0.00	0.00	0.00	8.55	0.11	0.00	8.66
TOTALS	0.88	0.24	0.00	14.61	0.14	0.00	15.87

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Ashburn	0.74	0.00
Town of Rebecca	0.04	0.00
City of Sycamore	0.08	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



TWIGGS COUNTY

Population: 10,299

Population served by public supply: 2,400

Acres irrigated: 3,590

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

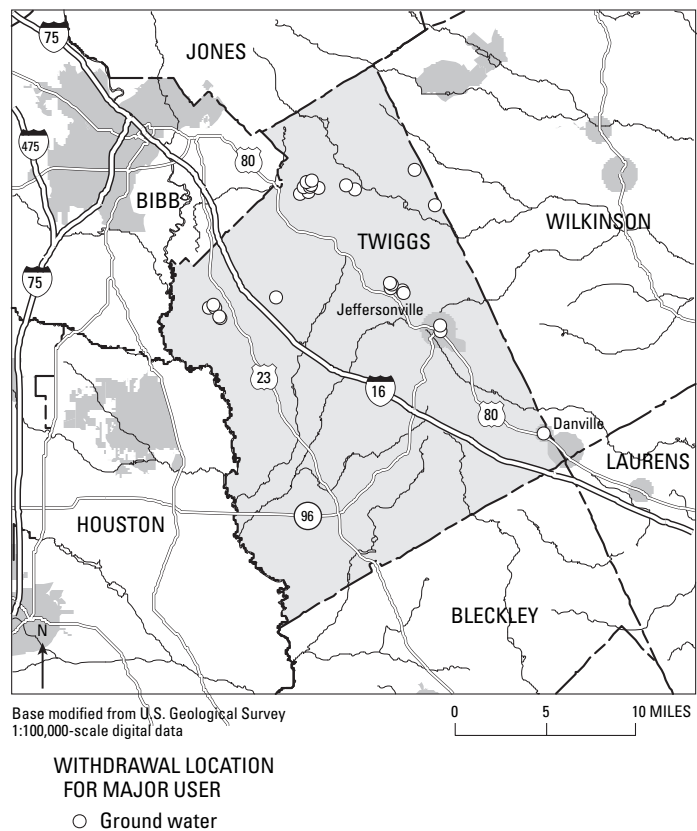
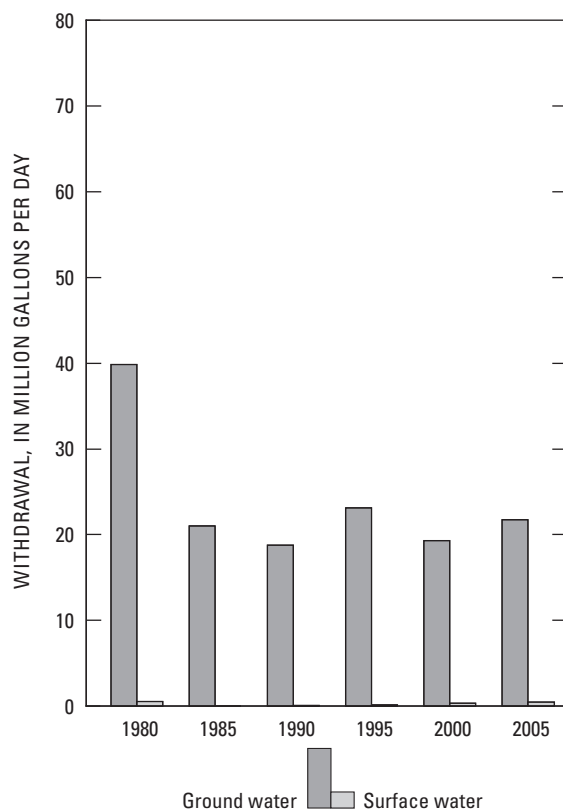
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.30	0.59	19.89	0.93	0.01	0.00	21.72
Surface Water	0.00	0.00	0.00	0.47	0.01	0.00	0.48
TOTALS	0.30	0.59	19.89	1.40	0.02	0.00	22.20

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Danville	0.06	0.00
City of Jeffersonville	0.22	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
14 - Mining	0.04	0.00
32 - Stone, clay	14.76	0.00



UNION COUNTY

Population: 19,782

Population served by public supply: 12,860

Acres irrigated: 100

Hydroelectric use (Mgal/d): 378.36



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

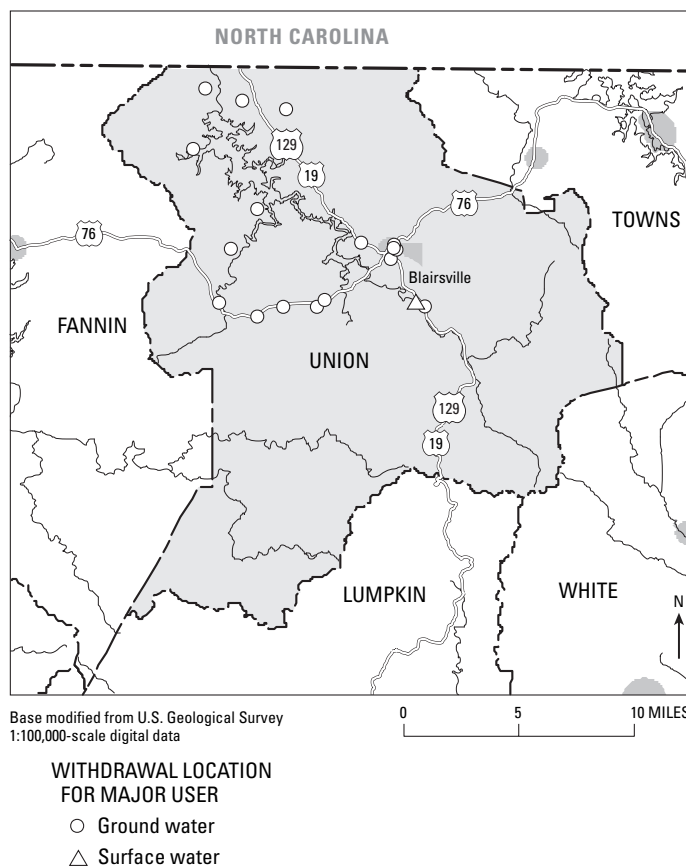
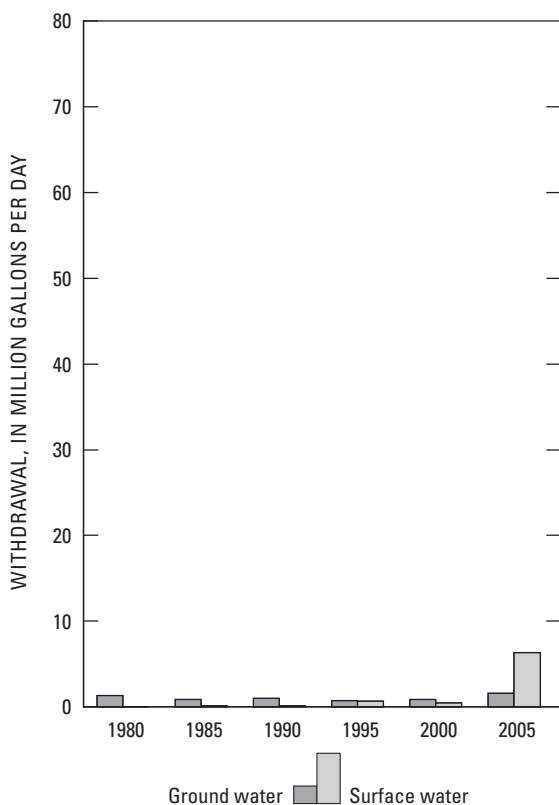
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.99	0.52	0.10	0.00	0.00	0.00	1.61
Surface Water	0.92	0.00	0.00	0.15	5.40	0.00	6.47
TOTALS	1.91	0.52	0.10	0.15	5.40	0.00	8.08

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Blairsville	0.24	0.31
Coosa Water Authority	0.37	0.00
Notla Water Authority	0.37	0.61

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



UPSON COUNTY

Population: 27,679

Population served by public supply: 12,270

Acres irrigated: 750

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

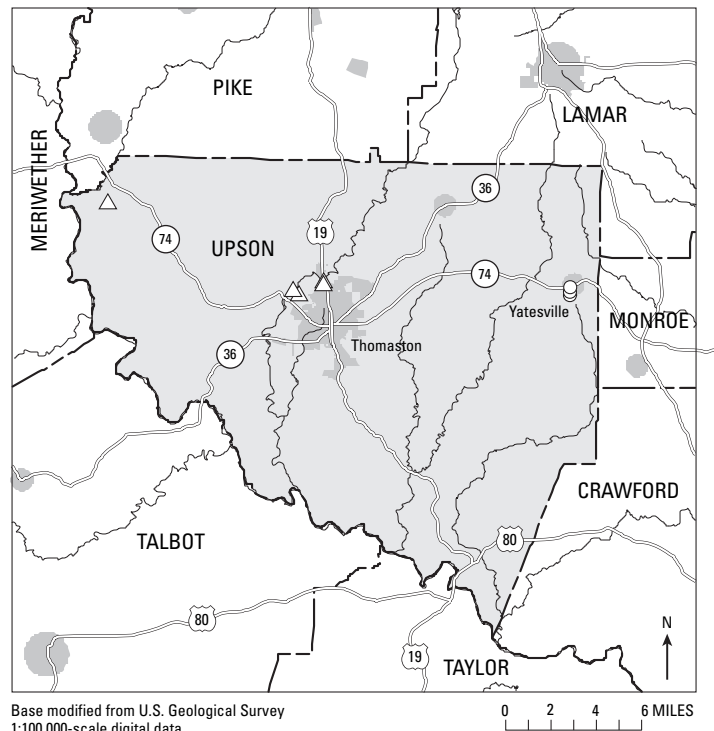
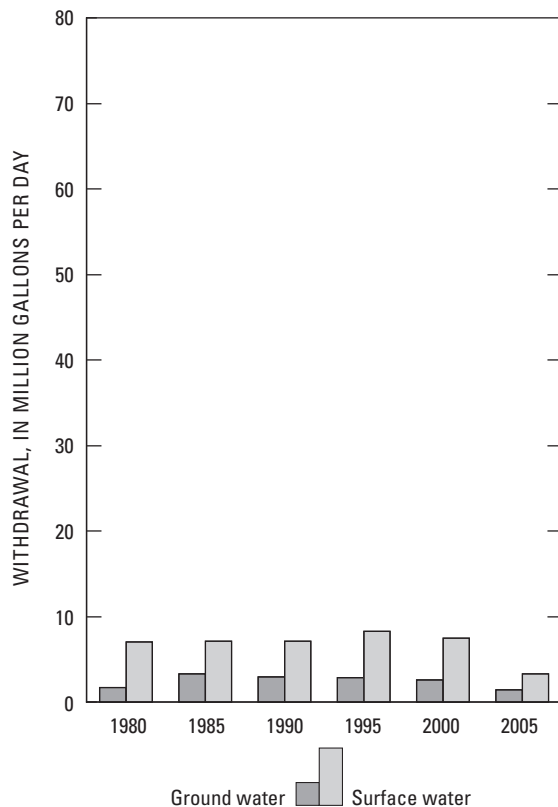
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.25	1.16	0.00	0.00	0.02	0.00	1.43
Surface Water	2.61	0.00	0.23	0.50	0.26	0.00	3.60
TOTALS	2.86	1.16	0.23	0.50	0.28	0.00	5.03

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Thomaston	0.00	2.61
Town of Yatesville	0.07	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.00	0.15

**WITHDRAWAL LOCATION FOR MAJOR USER**

- Ground water
- △ Surface water

WALKER COUNTY

Population: 63,890

Population served by public supply: 63,690

Acres irrigated: 440

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

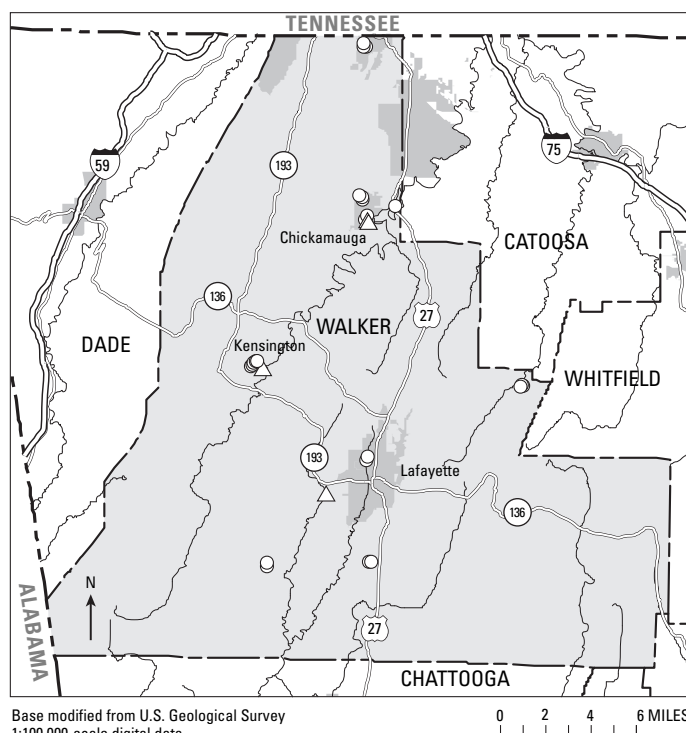
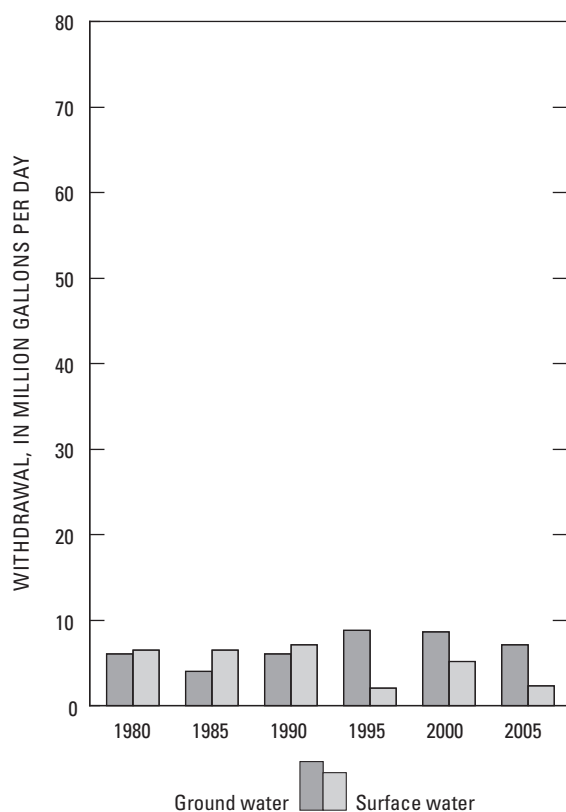
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	6.41	0.02	0.72	0.00	0.02	0.00	7.17
Surface Water	1.20	0.00	0.51	0.71	0.33	0.00	2.75
TOTALS	7.61	0.02	1.23	0.71	0.35	0.00	9.92

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Walker County Water & Sewer Authority	3.81	0.00
City of Lafayette	0.97	1.20
City of Chickamauga	0.91	0.00
Kensington Water & Sewer	0.47	0.00
Walker County Rural Water & Sewer Authority	0.25	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
22 - Textiles	0.15	0.51
30 - Rubber	0.47	0.00



WALTON COUNTY

Population: 75,647

Population served by public supply: 40,850

Acres irrigated: 1,300

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

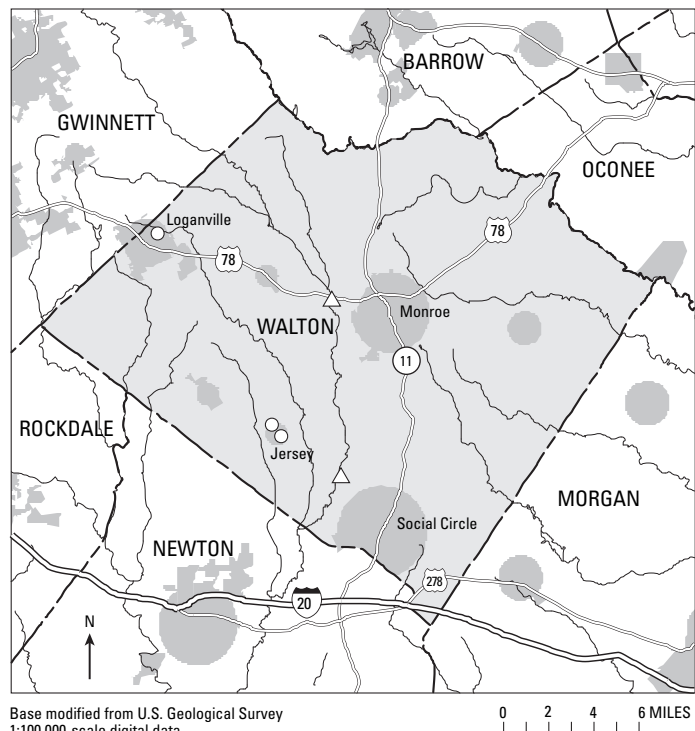
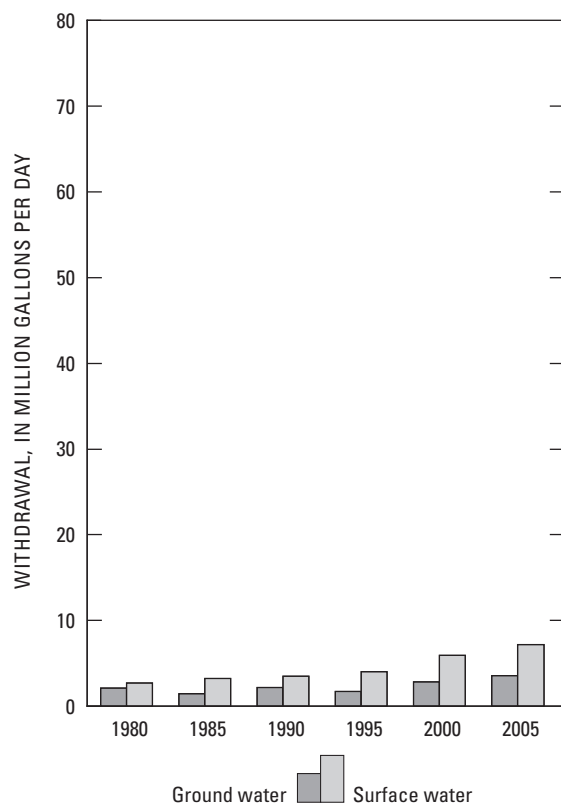
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.34	2.61	0.00	0.59	0.00	0.00	3.54
Surface Water	4.86	0.00	0.00	2.09	0.26	0.00	7.21
TOTALS	5.20	2.61	0.00	2.68	0.26	0.00	10.75

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Jersey	0.03	0.00
Monroe Water, Light & Gas Company	0.00	4.30
City of Social Circle	0.00	0.57
City of Loganville	0.29	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

WARE COUNTY

Population: 34,492

Population served by public supply: 29,320

Acres irrigated: 5,800

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

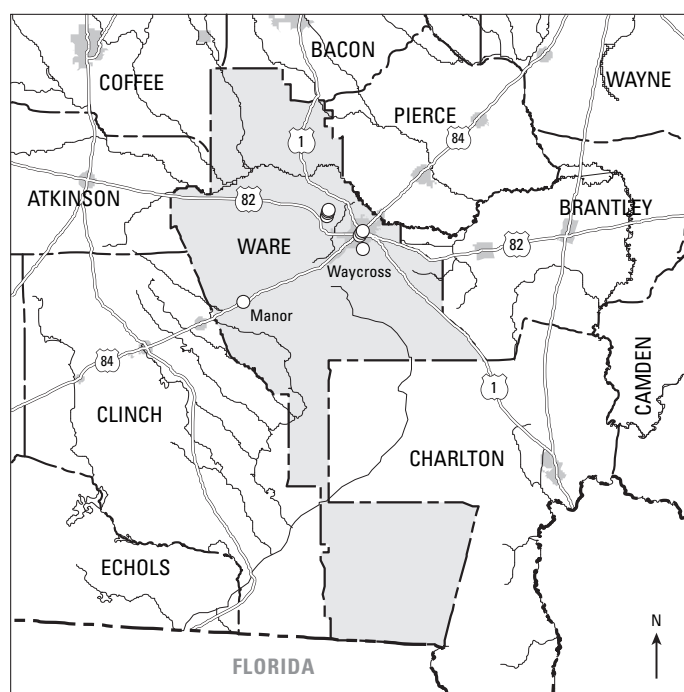
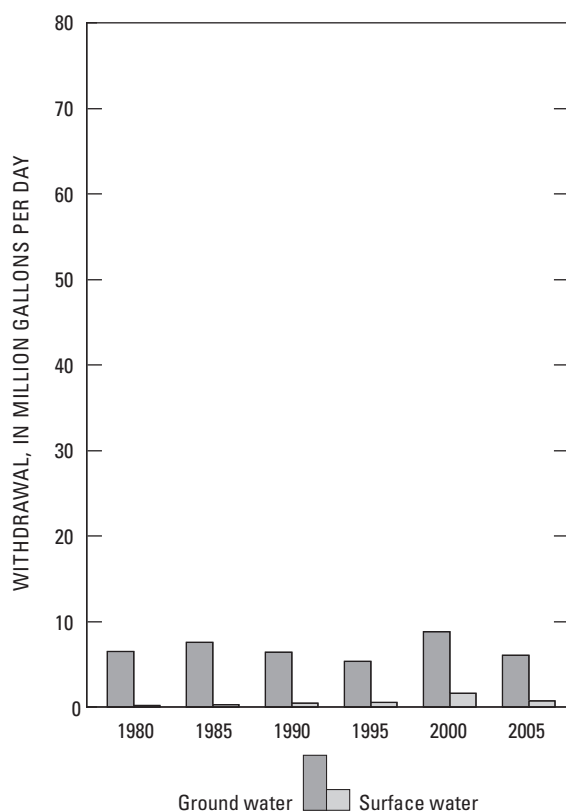
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.44	1.27	0.00	1.36	0.01	0.00	6.08
Surface Water	0.00	0.00	0.00	0.65	0.12	0.00	0.77
TOTALS	3.44	1.27	0.00	2.01	0.13	0.00	6.85

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Manor	0.08	0.00
City of Waycross	2.12	0.00
Satilla Regional W&S Authority	1.21	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

0 5 10 MILES

WARREN COUNTY

Population: 6,101

Population served by public supply: 3,420

Acres irrigated: 4,880

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

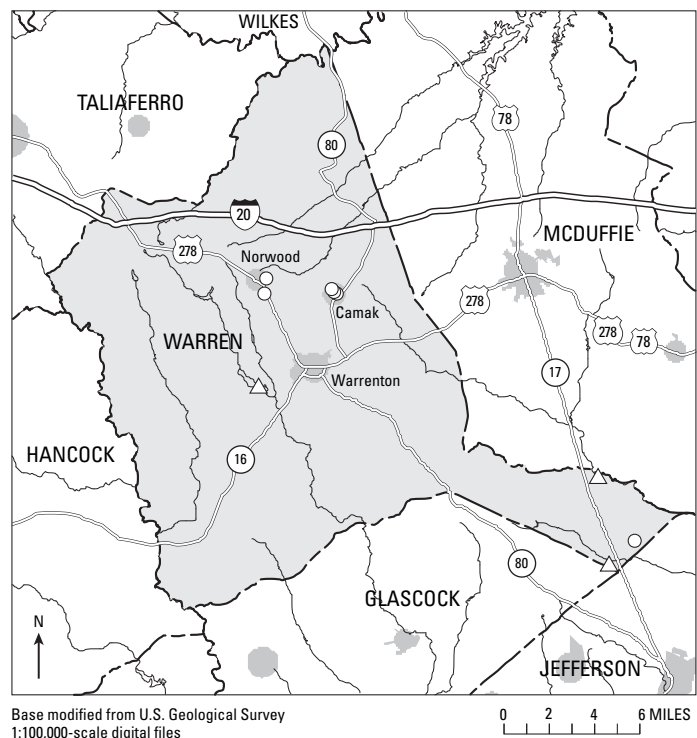
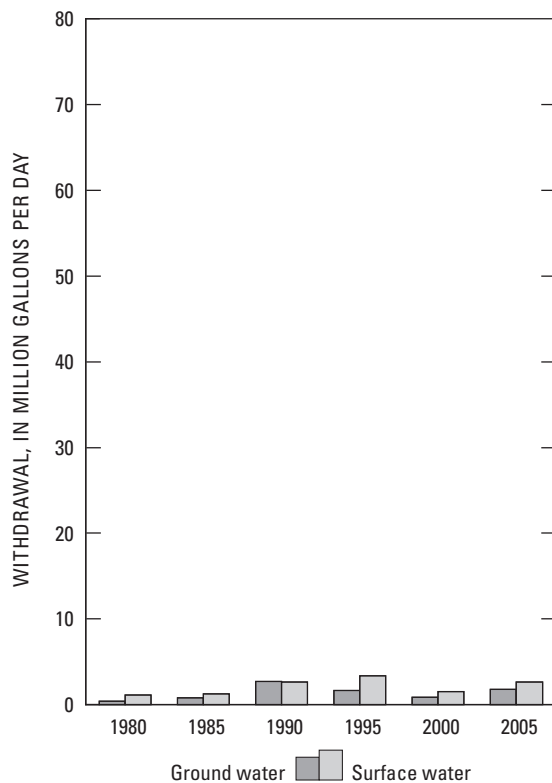
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.03	0.20	1.56	0.15	0.00	0.00	1.94
Surface Water	0.36	0.00	0.61	1.59	0.10	0.00	2.66
TOTALS	0.39	0.20	2.17	1.74	0.10	0.00	4.60

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Camak	0.01	0.00
Town of Norwood	0.02	0.00
City of Warrenton	0.00	0.36

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	0.46	0.61



WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

WASHINGTON COUNTY

Population: 20,118

Population served by public supply: 10,830

Acres irrigated: 7,720

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

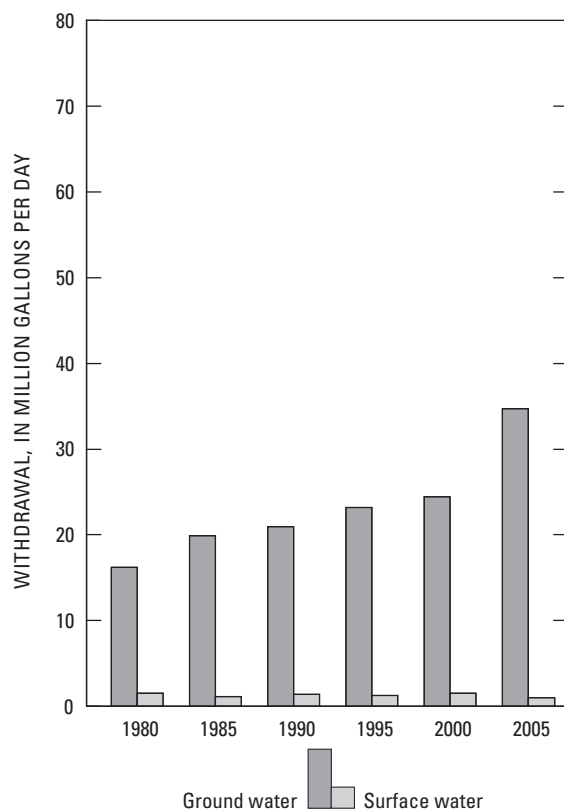
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	3.24	0.70	26.06	4.67	0.03	0.00	34.70
Surface Water	0.00	0.00	0.00	0.92	0.11	0.00	1.03
TOTALS	3.24	0.70	26.06	5.59	0.14	0.00	35.73

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Davisboro	0.18	0.00
Town of Deepstep	0.50	0.00
Town of Harrison	0.07	0.00
Town of Oconee	0.04	0.00
Town of Riddleville	0.03	0.00
City of Sandersville	2.03	0.00
City of Tennille	0.36	0.00
Warthen Water Association	0.03	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
32 - Stone, clay	18.45	0.00



WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

WAYNE COUNTY

Population: 28,390

Population served by public supply: 12,200

Acres irrigated: 5,400

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

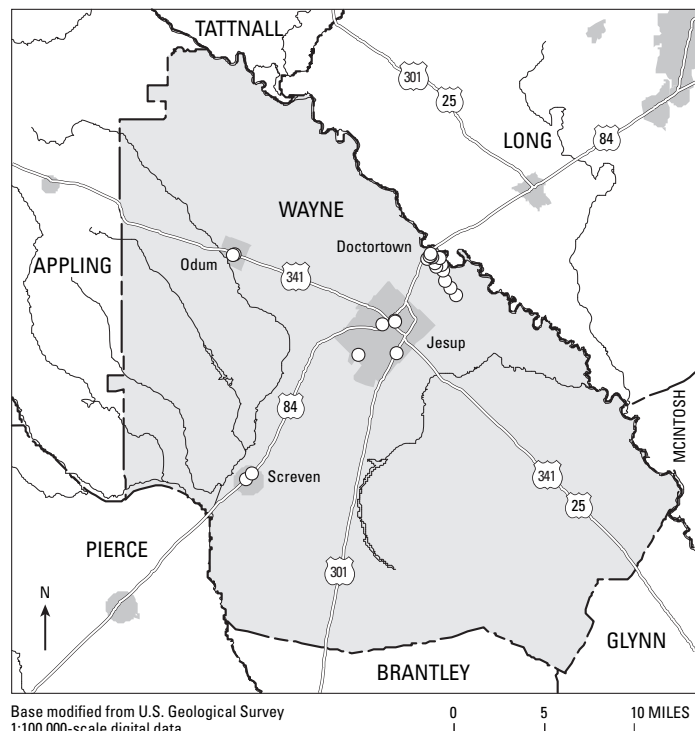
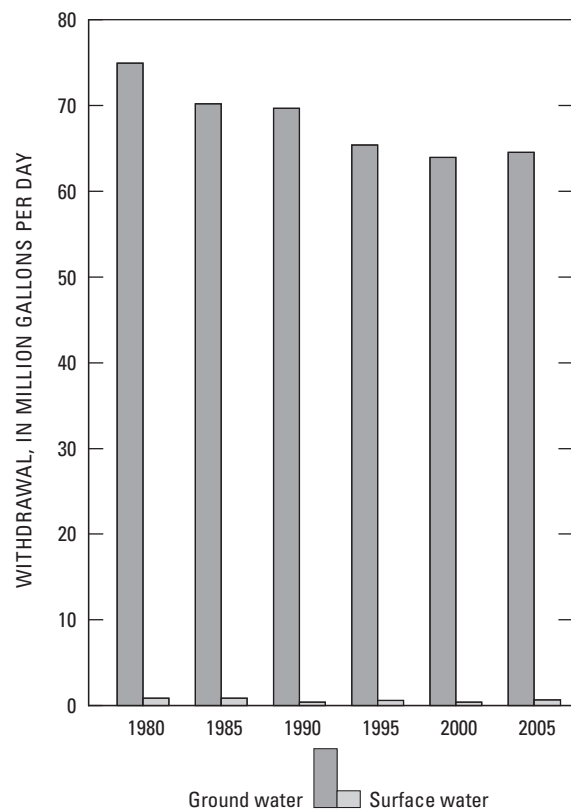
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	2.09	1.21	59.23	2.04	0.01	0.00	64.58
Surface Water	0.00	0.00	0.00	0.56	0.08	0.00	0.64
TOTALS	2.09	1.21	59.23	2.60	0.09	0.00	65.22

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Jesup	1.79	0.00
Town of Odum	0.06	0.00
City of Screven	0.09	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
28 - Chemicals	59.15	0.00



WEBSTER COUNTY

Population: 2,289

Population served by public supply: 1,240

Acres irrigated: 10,200

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

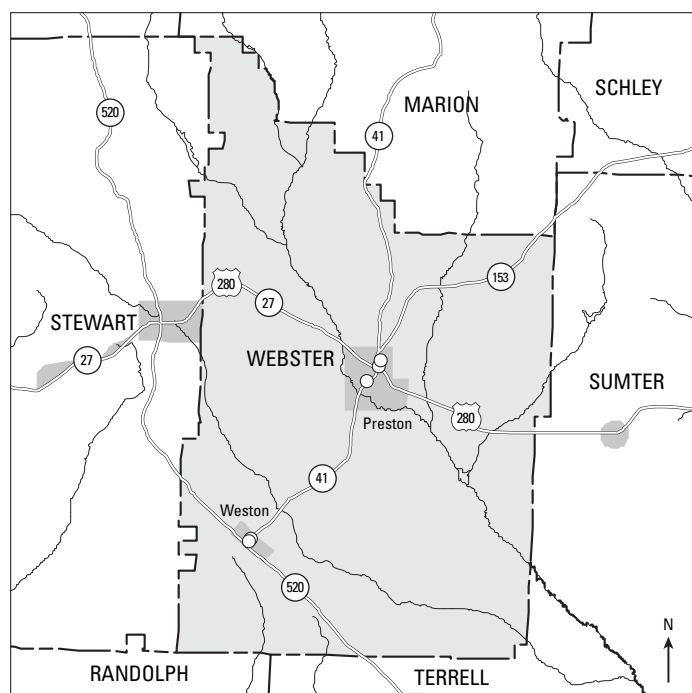
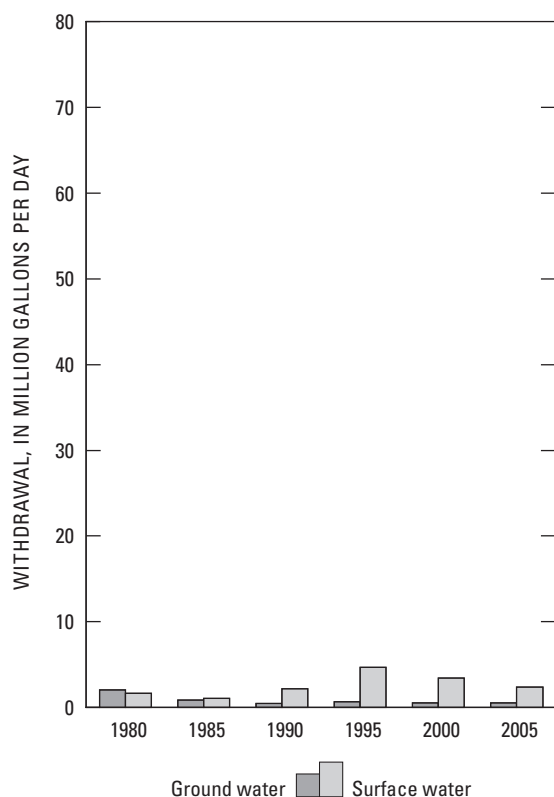
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.17	0.08	0.00	0.29	0.00	0.00	0.54
Surface Water	0.00	0.00	0.00	2.35	0.05	0.00	2.40
TOTALS	0.17	0.08	0.00	2.64	0.05	0.00	2.94

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Preston	0.15	0.00
Town of Weston	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

WHEELER COUNTY

Population: 6,706

Population served by public supply: 2,200

Acres irrigated: 7,540

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

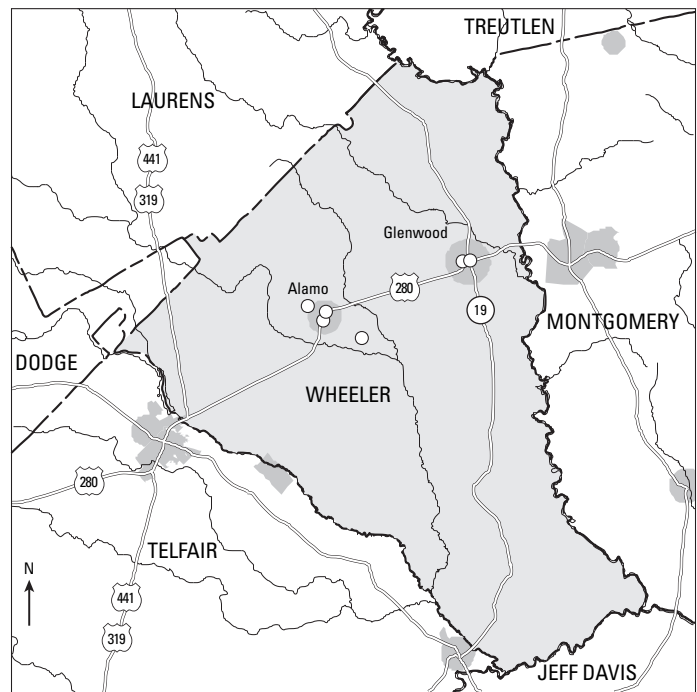
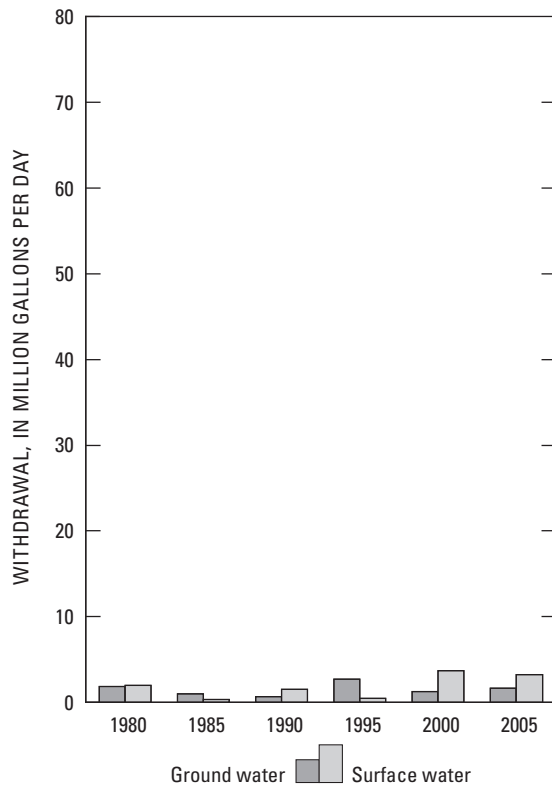
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.31	0.34	0.00	0.98	0.01	0.00	1.64
Surface Water	0.00	0.00	0.00	3.19	0.02	0.00	3.21
TOTALS	0.31	0.34	0.00	4.17	0.03	0.00	4.85

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Alamo	0.15	0.00
City of Glenwood	0.16	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

0 2 4 6 MILES

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

WHITE COUNTY

Population: 24,055

Population served by public supply: 12,630

Acres irrigated: 220

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

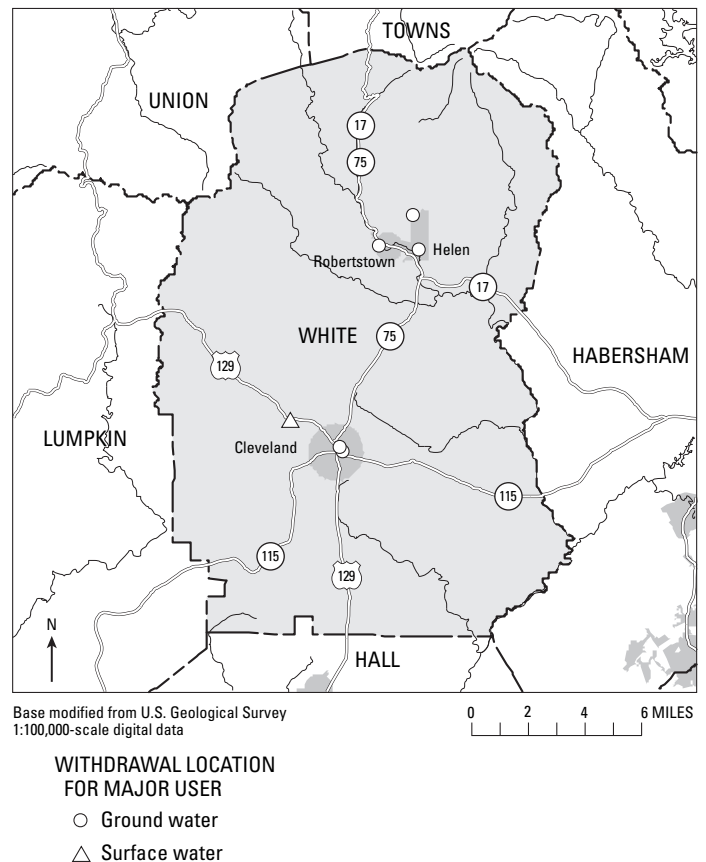
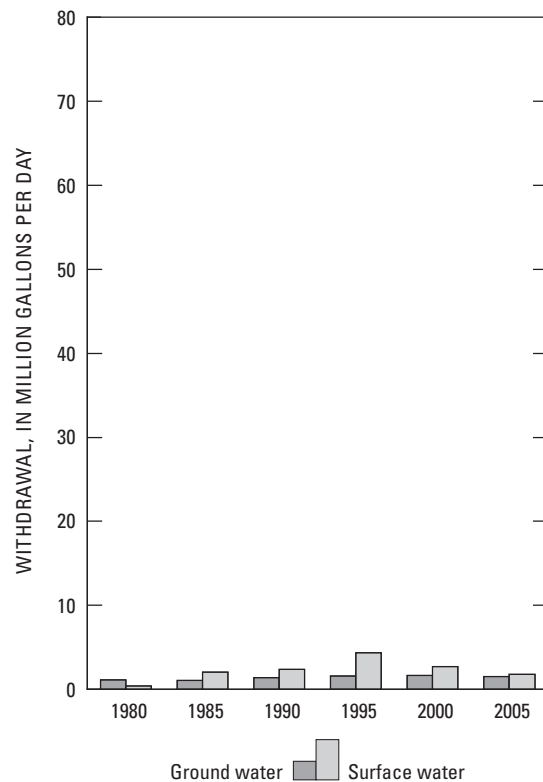
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.45	1.10	0.00	0.00	0.00	0.00	1.55
Surface Water	1.44	0.00	0.01	0.29	0.37	0.00	2.11
TOTALS	1.89	1.10	0.01	0.29	0.37	0.00	3.66

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
White County Water & Sewer Authority	0.00	1.44
City of Cleveland	0.25	0.00
City of Helen	0.14	0.00
City of Robertstown	0.01	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
14 - Mining	0.00	0.82



WHITFIELD COUNTY

Population: 90,889

Population served by public supply: 89,980

Acres irrigated: 350

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

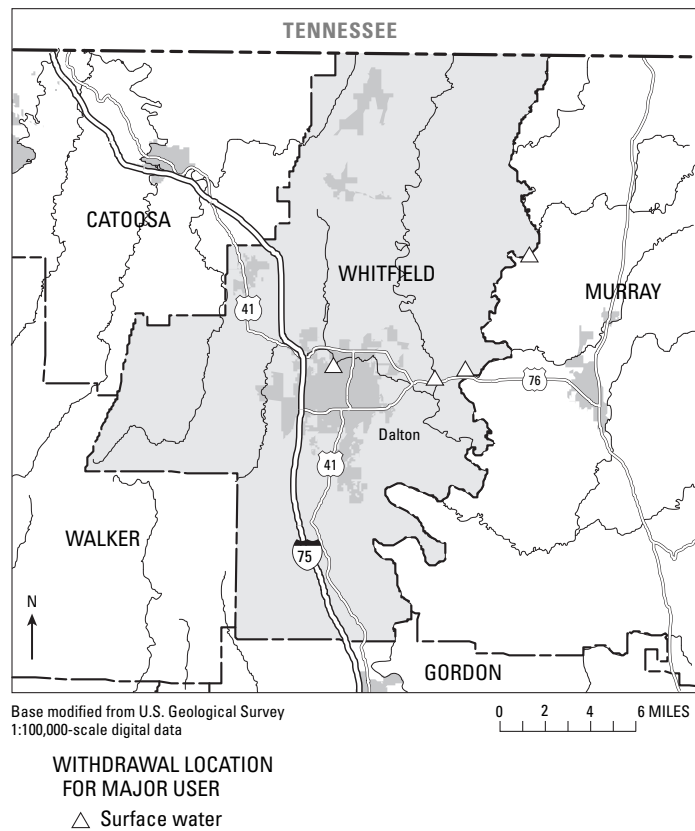
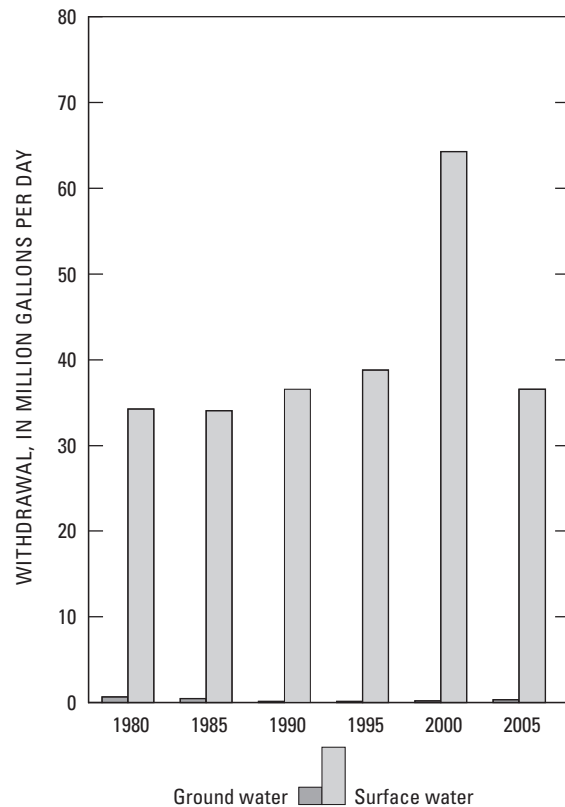
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.00	0.07	0.15	0.00	0.11	0.00	0.33
Surface Water	35.38	0.00	0.07	0.51	0.60	0.00	36.56
TOTALS	35.38	0.07	0.22	0.51	0.71	0.00	36.89

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Dalton Utilities	0.00	35.38

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



WILCOX COUNTY

Population: 8,721

Population served by public supply: 4,950

Acres irrigated: 26,320

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

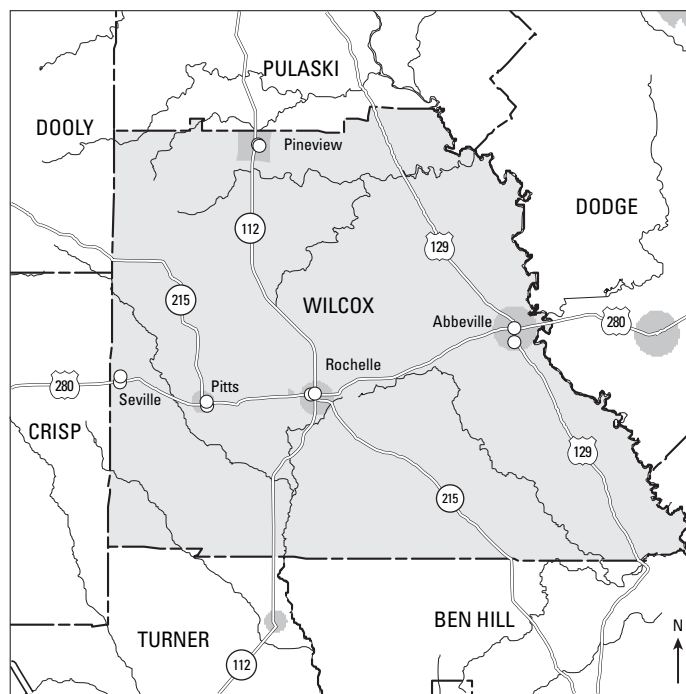
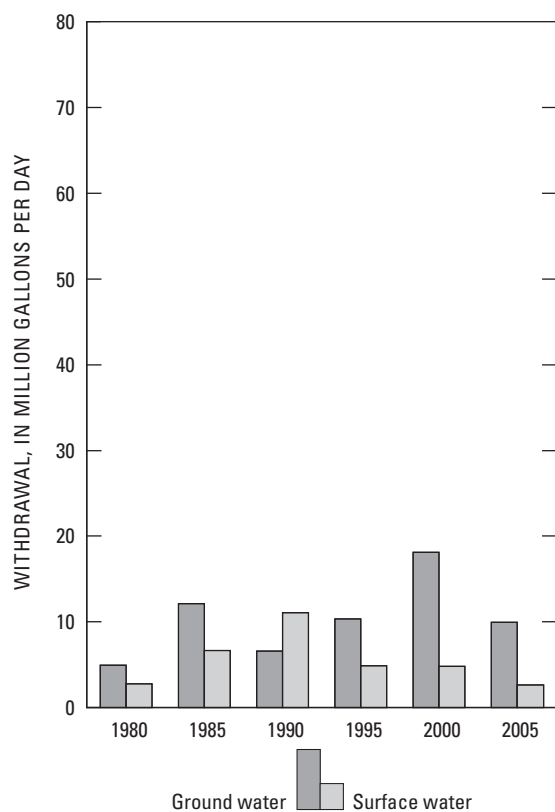
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.69	0.28	0.00	8.93	0.03	0.00	9.93
Surface Water	0.00	0.00	0.00	2.49	0.16	0.00	2.65
TOTALS	0.69	0.28	0.00	11.42	0.19	0.00	12.58

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
City of Abbeville	0.28	0.00
Town of Pineview	0.08	0.00
City of Pitts	0.06	0.00
City of Rochelle	0.25	0.00
Town of Seville	0.02	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water

WILKES COUNTY

Population: 10,457

Population served by public supply: 5,130

Acres irrigated: 50

Hydroelectric use (Mgal/d): 0.00

**2005 WITHDRAWALS, IN MILLION GALLONS PER DAY**

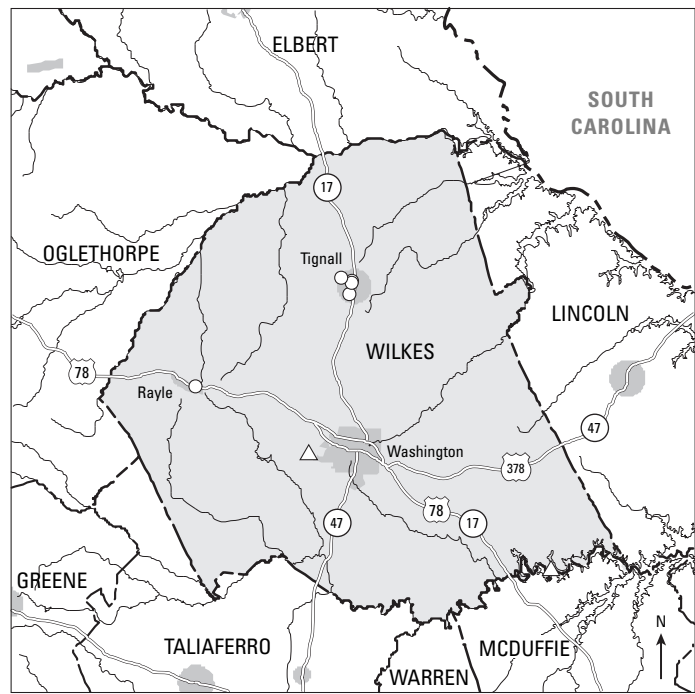
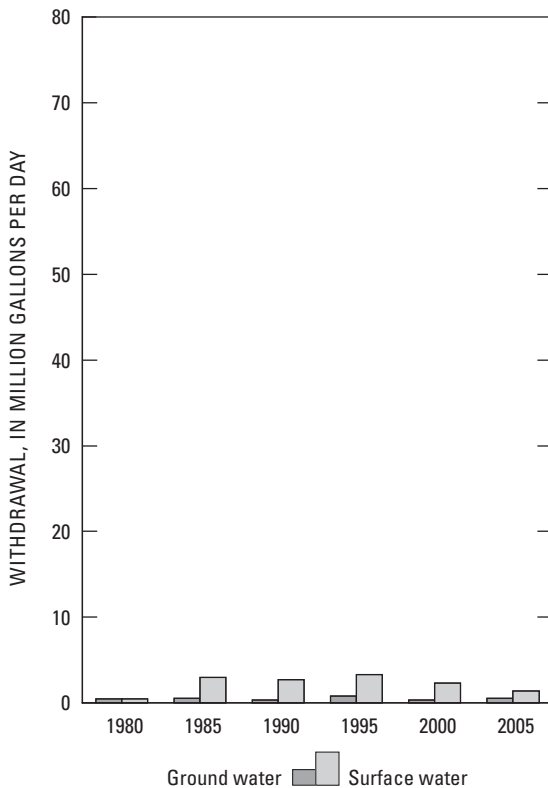
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo- electric	Totals
Ground Water	0.12	0.40	0.00	0.00	0.00	0.00	0.52
Surface Water	1.08	0.00	0.00	0.02	0.32	0.00	1.42
TOTALS	1.20	0.40	0.00	0.02	0.32	0.00	1.94

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Rayle Water Association	0.02	0.00
City of Tignall	0.10	0.00
City of Washington	0.00	1.09

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

**WITHDRAWAL LOCATION
FOR MAJOR USER**

- Ground water
- △ Surface water

WILKINSON COUNTY

Population: 10,143

Population served by public supply: 7,050

Acres irrigated: 150

Hydroelectric use (Mgal/d): 0.00



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

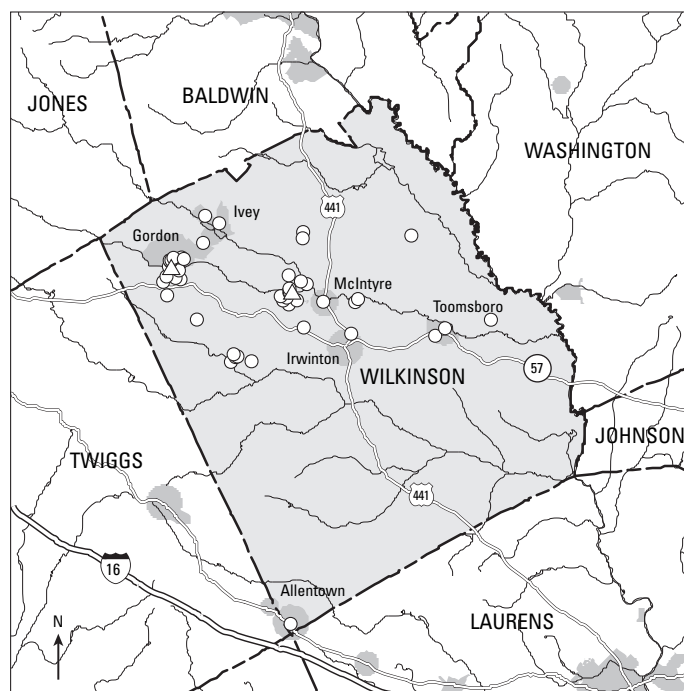
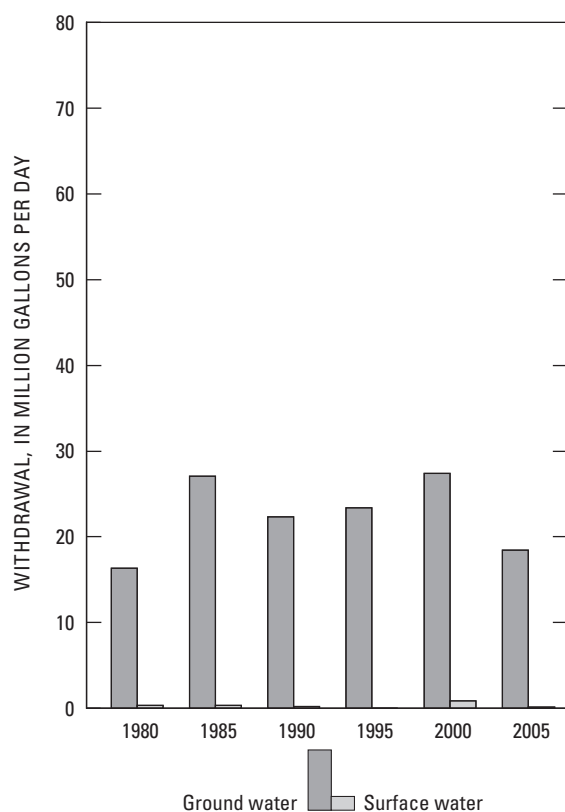
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	0.93	0.23	17.19	0.06	0.01	0.00	18.42
Surface Water	0.00	0.00	0.08	0.02	0.01	0.00	0.11
TOTALS	0.93	0.23	17.27	0.08	0.02	0.00	18.53

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Town of Allentown	0.05	0.00
Town of Gordon	0.27	0.00
Town of Irwinton	0.21	0.00
Town of Ivey	0.18	0.00
Town of McIntyre	0.12	0.00
Town of Toombsboro	0.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
14 - Mining	2.24	0.00
32 - Stone, clay	13.35	0.08



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

- Ground water
- △ Surface water

WORTH COUNTY

Population: 21,996

Population served by public supply: 10,090

Acres irrigated: 46,670

Hydroelectric use (Mgal/d): 1,907.60



2005 WITHDRAWALS, IN MILLION GALLONS PER DAY

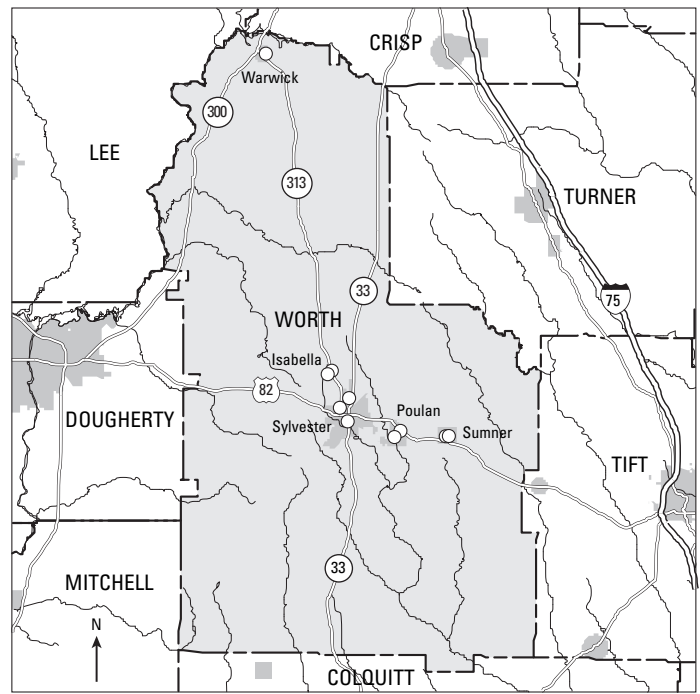
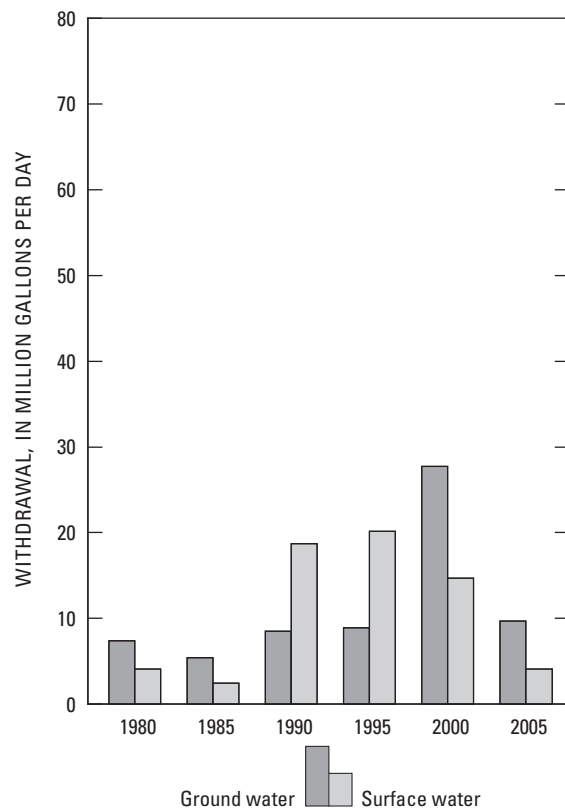
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	Totals
Ground Water	1.34	0.89	0.00	7.42	0.04	0.00	9.69
Surface Water	0.00	0.00	0.00	3.24	0.10	0.76	4.10
TOTALS	1.34	0.89	0.00	10.66	0.14	0.76	13.79

Withdrawals by Major Public Suppliers (Mgal/d):

Name	GW	SW
Isabella Water System	0.05	0.00
City of Poulan	0.17	0.00
Town of Sumner	0.03	0.00
City of Sylvester Water & Light	0.96	0.00
City of Warwick	0.06	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
None		



Base modified from U.S. Geological Survey
1:100,000-scale digital data

WITHDRAWAL LOCATION FOR MAJOR USER

○ Ground water

**Appendix C. Water Withdrawal and Water Use by County in
Georgia, 2005 (County of Source Withdrawal Location)**

Appendix C. Water withdrawal and water use by county in Georgia, 2005 (county of source withdrawal location):

[Values in shaded column are taken from table 6 and are repeated here for reference]

County	Withdrawals, in million gallons per day							Totals
	Public supply	Public supply (county of use location)	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric	
Appling	0.93	0.93	0.85	0.00	3.09	0.38	57.77	63.02
Atkinson	0.42	0.42	0.32	0.15	6.70	0.28	0.00	7.87
Bacon	0.76	0.76	0.52	0.25	4.68	0.21	0.00	6.42
Baker	0.11	0.11	0.25	0.00	33.31	0.72	0.00	34.39
Baldwin	6.75	6.75	0.04	0.23	0.53	0.08	0.00	7.63
Banks	2.01	0.69	0.93	0.00	0.15	0.69	0.00	3.78
Barrow	5.01	5.01	2.10	0.54	0.63	0.33	0.00	8.61
Bartow	62.24	17.82	0.75	3.93	1.57	0.37	38.92	107.78
Ben Hill	3.06	3.06	0.27	0.00	7.26	0.09	0.00	10.68
Berrien	0.99	0.99	0.69	0.08	3.99	1.11	0.00	6.86
Bibb	0.14	25.53	1.85	15.57	1.06	0.06	0.00	18.68
Bleckley	0.21	0.21	0.58	0.00	12.78	0.05	0.00	13.62
Brantley	0.20	0.20	1.00	1.44	0.11	0.08	0.00	2.83
Brooks	0.96	0.96	0.83	0.13	2.40	0.27	0.00	4.59
Bryan	1.73	1.73	0.82	0.00	0.59	0.01	0.00	3.15
Bulloch	4.01	4.01	1.37	0.03	11.65	0.23	0.00	17.29
Burke	1.11	1.11	1.12	0.05	15.94	0.24	65.36	83.82
Butts	2.93	2.93	0.32	0.00	0.21	0.04	0.00	3.50
Calhoun	0.78	0.78	0.06	0.00	26.11	0.08	0.00	27.03
Camden	4.06	4.06	2.01	0.07	1.38	0.06	0.00	7.58
Candler	0.46	0.46	0.45	0.00	10.01	0.21	0.00	11.13
Carroll	11.68	11.68	1.69	0.34	0.00	0.71	0.00	14.42
Catoosa	4.68	4.68	0.71	0.05	1.05	0.20	0.00	6.69
Charlton	0.73	0.73	0.48	0.00	0.01	0.02	0.00	1.24
Chatham	33.52	33.52	5.06	41.98	2.35	0.01	161.18	244.10
Chattahoochee	1.03	1.03	6.24	0.00	0.15	0.01	0.00	7.43
Chattooga	3.36	3.36	0.29	7.32	0.07	1.24	0.00	12.28
Cherokee	18.94	18.94	5.18	2.52	2.38	0.33	0.00	29.35
Clarke	6.53	6.53	0.02	0.00	0.93	0.09	0.00	7.57
Clay	0.26	0.26	0.11	0.00	0.26	0.03	0.00	0.66
Clayton	13.68	29.96	1.94	0.38	0.88	0.01	0.00	16.89
Clinch	0.49	0.49	0.28	0.04	0.31	0.76	0.00	1.88
Cobb	46.95	91.36	1.00	1.17	2.93	0.03	362.58	414.66
Coffee	4.68	4.68	1.63	0.00	9.15	0.67	0.00	16.13
Colquitt	3.84	3.84	1.47	0.33	30.76	0.35	0.00	36.75
Columbia	12.55	12.55	0.98	0.89	1.13	0.03	0.00	15.58
Cook	2.09	2.09	0.54	0.17	8.28	0.05	0.00	11.13
Coweta	8.19	8.19	0.52	0.28	2.33	0.11	31.08	42.51
Crawford	0.28	0.28	0.76	0.44	3.22	0.17	0.00	4.87
Crisp	2.10	2.10	0.36	0.07	16.20	0.07	0.00	18.80

Appendix C. Water withdrawal and water use by county in Georgia, 2005 (county of source withdrawal location).—Continued

[Values in shaded column are taken from table 6 and are repeated here for reference]

County	Withdrawals, in million gallons per day							Totals
	Public supply	Public supply (county of use location)	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric	
Dade	2.35	2.35	0.00	0.00	0.46	0.09	0.00	2.90
Dawson	1.60	1.60	0.48	0.00	0.39	0.24	0.00	2.71
Decatur	2.87	2.87	1.45	1.14	36.64	0.23	0.00	42.33
DeKalb	0.00	83.05	3.05	0.97	1.77	0.00	0.00	5.79
Dodge	0.72	0.72	0.92	0.00	17.44	0.85	0.00	19.93
Dooly	2.21	2.21	0.30	0.00	23.59	0.19	0.00	26.29
Dougherty	13.73	13.73	0.90	13.62	10.97	0.03	120.14	159.39
Douglas	21.78	12.39	2.92	0.94	1.77	0.03	0.00	27.44
Early	0.90	0.90	0.45	107.56	14.81	0.18	0.00	123.90
Echols	0.05	0.05	0.27	0.00	5.95	0.01	0.00	6.28
Effingham	36.29	36.29	1.62	17.84	0.52	0.07	94.53	150.87
Elbert	1.84	1.84	0.80	0.04	0.45	0.27	0.00	3.40
Emanuel	2.03	2.03	0.76	0.98	2.70	0.19	0.00	6.66
Evans	0.56	0.56	0.42	1.55	1.58	0.13	0.00	4.24
Fannin	1.78	1.78	0.76	0.00	0.05	0.18	0.00	2.77
Fayette	11.12	11.12	1.74	0.60	1.29	0.04	0.00	14.79
Floyd	13.39	13.39	0.47	26.88	3.47	10.08	535.00	589.29
Forsyth	17.13	17.13	3.15	1.15	0.24	6.85	0.00	28.52
Franklin	1.93	1.93	0.83	0.00	0.26	1.14	0.00	4.16
Fulton	227.95	154.29	1.64	1.34	4.41	0.06	0.00	235.40
Gilmer	3.22	3.22	1.13	5.78	0.17	0.64	0.00	10.94
Glascok	0.08	0.08	0.12	0.05	0.04	0.04	0.00	0.33
Glynn	9.85	9.85	4.37	64.51	0.00	0.04	36.96	115.73
Gordon	12.71	12.71	0.93	0.09	0.73	0.65	0.00	15.11
Grady	1.85	1.85	0.86	0.35	7.08	0.22	0.00	10.36
Greene	1.45	1.45	0.29	0.16	1.74	0.27	0.00	3.91
Gwinnett	2.88	87.90	0.00	1.21	5.04	0.05	0.00	9.19
Habersham	5.90	5.90	1.32	0.15	0.50	5.33	0.00	13.20
Hall	103.37	18.37	2.29	1.48	0.77	0.80	0.00	108.71
Hancock	1.02	1.02	0.26	0.12	0.04	0.04	0.00	1.48
Haralson	2.36	2.36	0.02	0.00	0.85	0.13	0.00	3.36
Harris	7.38	7.38	0.87	2.40	0.74	0.07	1.20	12.66
Hart	1.31	1.31	1.18	0.11	0.53	0.65	0.00	3.78
Heard	1.06	1.06	0.23	0.09	0.00	0.18	64.33	65.89
Henry	33.19	16.91	0.76	0.63	0.27	0.10	0.00	34.95
Houston	20.61	20.61	1.12	2.74	5.63	0.14	0.00	30.24
Irwin	0.57	0.57	0.47	0.00	16.45	0.08	0.00	17.57
Jackson	18.72	20.04	0.20	0.69	0.57	1.00	0.00	21.18
Jasper	0.55	0.55	1.04	0.78	0.22	0.20	0.00	2.79
Jeff Davis	0.44	0.44	0.51	0.33	4.08	0.22	0.00	5.58

Appendix C. Water withdrawal and water use by county in Georgia, 2005 (county of source withdrawal location).—Continued

[Values in shaded column are taken from table 6 and are repeated here for reference]

County	Withdrawals, in million gallons per day							Totals
	Public supply	Public supply (county of use location)	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric	
Jefferson	1.51	1.51	0.60	7.58	9.40	1.43	0.00	20.52
Jenkins	0.42	0.42	0.34	0.00	3.95	0.18	0.00	4.89
Johnson	0.52	0.52	0.50	0.00	1.74	0.28	0.00	3.04
Jones	26.51	1.12	1.08	1.70	0.25	0.10	0.00	29.64
Lamar	1.31	1.31	0.68	0.00	0.73	0.18	0.00	2.90
Lanier	0.45	0.45	0.35	0.12	1.23	0.02	0.00	2.17
Laurens	3.94	3.94	1.64	16.90	7.50	0.14	0.00	30.12
Lee	1.82	1.82	1.19	0.13	4.28	0.14	0.00	7.56
Liberty	4.84	4.84	2.48	8.26	0.20	0.01	0.00	15.79
Lincoln	0.39	0.39	0.18	0.00	0.27	0.07	0.00	0.91
Long	1.49	1.49	0.58	0.46	0.40	0.05	0.00	2.98
Lowndes	10.59	10.59	1.65	9.04	9.36	0.08	0.00	30.72
Lumpkin	1.21	1.21	1.49	0.14	0.18	0.22	0.00	3.24
McDuffie	2.61	2.61	0.67	0.00	2.43	0.14	0.00	5.85
McIntosh	0.73	0.73	0.21	0.00	0.15	0.00	0.00	1.09
Macon	1.59	1.59	0.44	10.57	18.26	0.61	0.00	31.47
Madison	0.42	0.42	1.64	0.30	0.34	0.86	0.00	3.56
Marion	1.91	1.91	0.49	0.29	0.49	0.09	0.00	3.27
Meriwether	0.33	1.41	1.08	0.09	0.78	0.22	0.00	2.50
Miller	0.69	0.69	0.28	0.00	21.01	0.11	0.00	22.09
Mitchell	3.87	3.87	1.09	0.03	33.99	0.69	0.00	39.67
Monroe	1.43	1.43	1.17	0.70	0.15	0.33	59.02	62.80
Montgomery	0.48	0.48	0.26	0.01	1.65	0.06	0.00	2.46
Morgan	1.45	1.45	0.71	0.14	0.11	0.51	0.00	2.92
Murray	3.42	3.42	1.84	0.04	0.78	0.21	0.00	6.29
Muscogee	32.22	32.22	0.00	0.47	1.18	0.02	0.00	33.89
Newton	11.25	11.25	2.03	0.32	0.94	0.10	0.00	14.64
Oconee	0.31	0.31	0.89	0.00	0.49	0.32	0.00	2.01
Oglethorpe	0.22	0.22	0.84	0.00	0.34	0.59	0.00	1.99
Paulding	3.11	3.11	1.19	0.24	0.11	0.10	0.00	4.75
Peach	2.16	2.16	0.58	0.00	7.82	0.07	0.00	10.63
Pickens	2.17	2.17	0.55	1.46	0.36	0.32	0.00	4.86
Pierce	0.59	0.59	0.92	0.02	1.86	0.10	0.00	3.49
Pike	0.15	4.49	0.94	0.00	0.29	0.20	0.00	1.58
Polk	5.96	5.96	0.36	1.64	0.73	0.17	0.00	8.86
Pulaski	0.85	0.85	0.29	0.65	14.91	0.04	0.00	16.74
Putnam	1.21	1.21	0.59	0.07	2.89	0.39	1,092.00	1,097.15
Quitman	0.14	0.14	0.04	0.00	0.02	0.01	0.00	0.21
Rabun	1.97	1.97	0.33	1.75	0.58	0.07	0.00	4.70
Randolph	0.96	0.96	0.15	0.06	9.20	0.05	0.00	10.42

Appendix C. Water withdrawal and water use by county in Georgia, 2005 (county of source withdrawal location).—Continued

[Values in shaded column are taken from table 6 and are repeated here for reference]

County	Withdrawals, in million gallons per day							Totals
	Public supply	Public supply (county of use location)	Domestic and commercial	Industrial and mining	Irrigation	Livestock	Thermo-electric	
Richmond	43.13	43.13	2.44	69.28	2.99	0.03	0.00	117.87
Rockdale	12.54	12.54	4.97	0.15	0.31	0.02	0.00	17.99
Schley	0.63	0.63	0.05	0.00	0.28	0.08	0.00	1.04
Screven	1.02	1.02	0.68	1.73	10.79	0.11	0.00	14.33
Seminole	0.63	0.63	0.39	0.00	38.30	0.12	0.00	39.44
Spalding	12.41	8.07	0.87	0.21	0.81	0.07	0.00	14.37
Stephens	3.97	3.97	0.19	0.11	0.07	0.23	0.00	4.57
Stewart	0.22	0.22	0.04	0.00	0.78	0.06	0.00	1.10
Sumter	3.05	3.05	0.87	0.71	9.10	0.23	0.00	13.96
Talbot	1.27	0.18	0.14	0.91	0.00	0.14	0.00	2.46
Taliaferro	0.05	0.05	0.08	0.00	0.00	0.06	0.00	0.19
Tattnall	1.12	1.12	1.80	0.09	5.40	0.57	0.00	8.98
Taylor	0.78	0.78	0.31	2.56	1.46	0.15	0.00	5.26
Telfair	1.27	1.27	0.31	0.09	3.02	0.06	0.00	4.75
Terrell	1.48	1.48	0.24	0.00	14.40	0.08	0.00	16.20
Thomas	5.55	5.55	0.92	3.04	10.40	0.23	0.00	20.14
Tift	4.99	4.99	1.00	0.00	19.89	0.10	0.00	25.98
Toombs	2.67	2.67	0.68	0.04	7.53	0.16	0.00	11.08
Towns	2.11	2.11	0.05	0.05	0.33	4.04	0.00	6.58
Treutlen	0.40	0.40	0.27	0.00	0.85	0.02	0.00	1.54
Troup	10.33	10.33	0.89	0.27	1.05	0.09	0.00	12.63
Turner	0.88	0.88	0.24	0.00	14.61	0.14	0.00	15.87
Twiggs	0.30	0.30	0.59	19.89	1.40	0.02	0.00	22.20
Union	1.91	1.91	0.52	0.10	0.15	5.40	0.00	8.08
Upson	2.86	2.86	1.16	0.23	0.50	0.28	0.00	5.03
Walker	7.61	7.61	0.02	1.23	0.71	0.35	0.00	9.92
Walton	5.20	5.20	2.61	0.00	2.68	0.26	0.00	10.75
Ware	3.44	3.44	1.27	0.00	2.01	0.13	0.00	6.85
Warren	0.39	0.39	0.20	2.17	1.74	0.10	0.00	4.60
Washington	3.24	3.24	0.70	26.06	5.59	0.14	0.00	35.73
Wayne	2.09	2.09	1.21	59.23	2.60	0.09	0.00	65.22
Webster	0.17	0.17	0.08	0.00	2.64	0.05	0.00	2.94
Wheeler	0.31	0.31	0.34	0.00	4.17	0.03	0.00	4.85
White	1.89	1.89	1.10	0.01	0.29	0.37	0.00	3.66
Whitfield	35.38	35.38	0.07	0.22	0.51	0.71	0.00	36.89
Wilcox	0.69	0.69	0.28	0.00	11.42	0.19	0.00	12.58
Wilkes	1.20	1.20	0.40	0.00	0.02	0.32	0.00	1.94
Wilkinson	0.93	0.93	0.23	17.27	0.08	0.02	0.00	18.53
Worth	1.34	1.34	0.89	0.00	10.66	0.14	0.76	13.79
Totals	1,179.85	1,179.85	148.73	603.56	751.64	66.86	2,720.83	5,471.47

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